

**D-112  
MSI  
12-BIT  
DIGITAL  
COMPUTER**

**Installation and Maintenance Manual**

**Volume II**



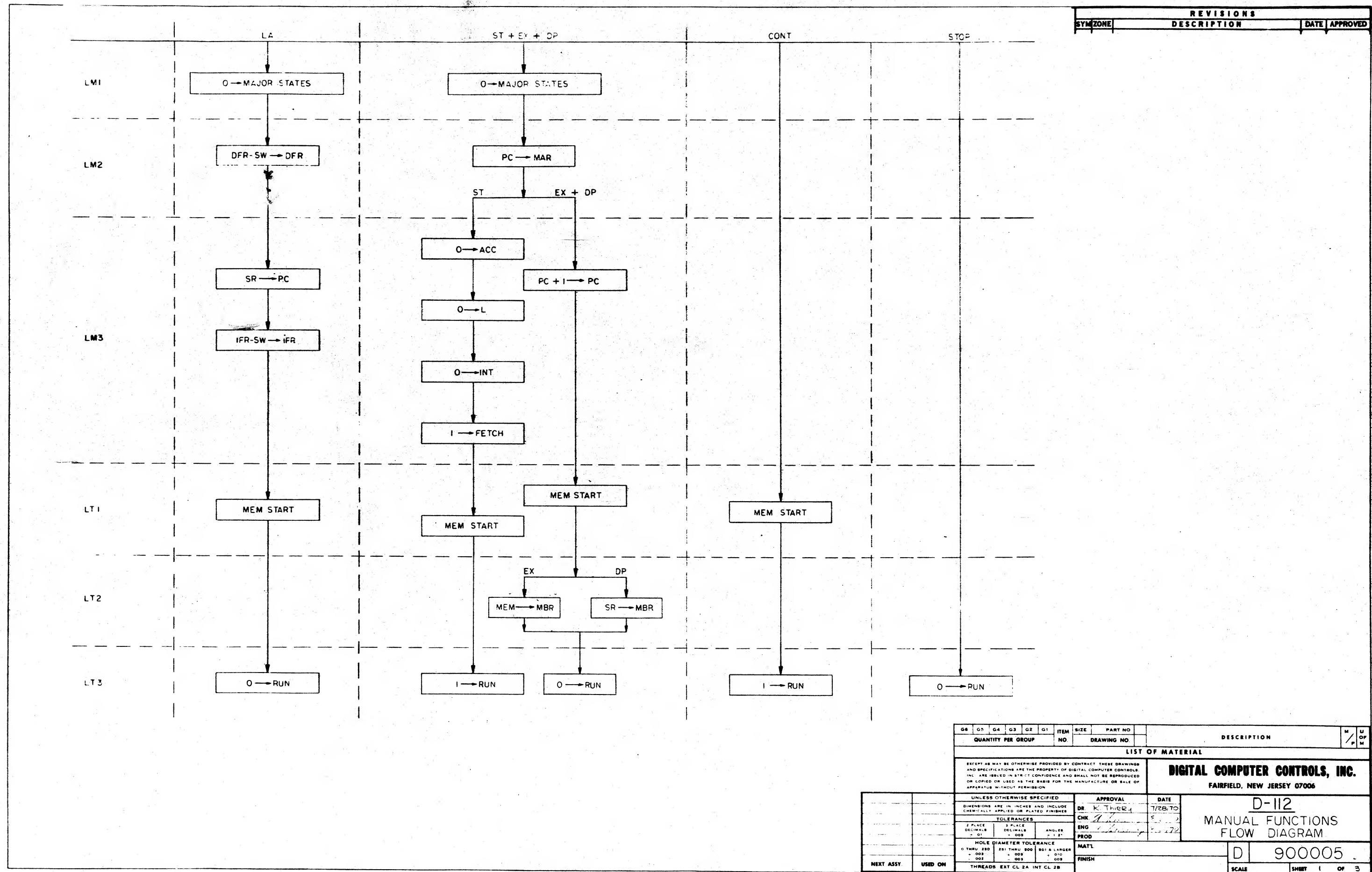
**DIGITAL COMPUTER CONTROLS INC**

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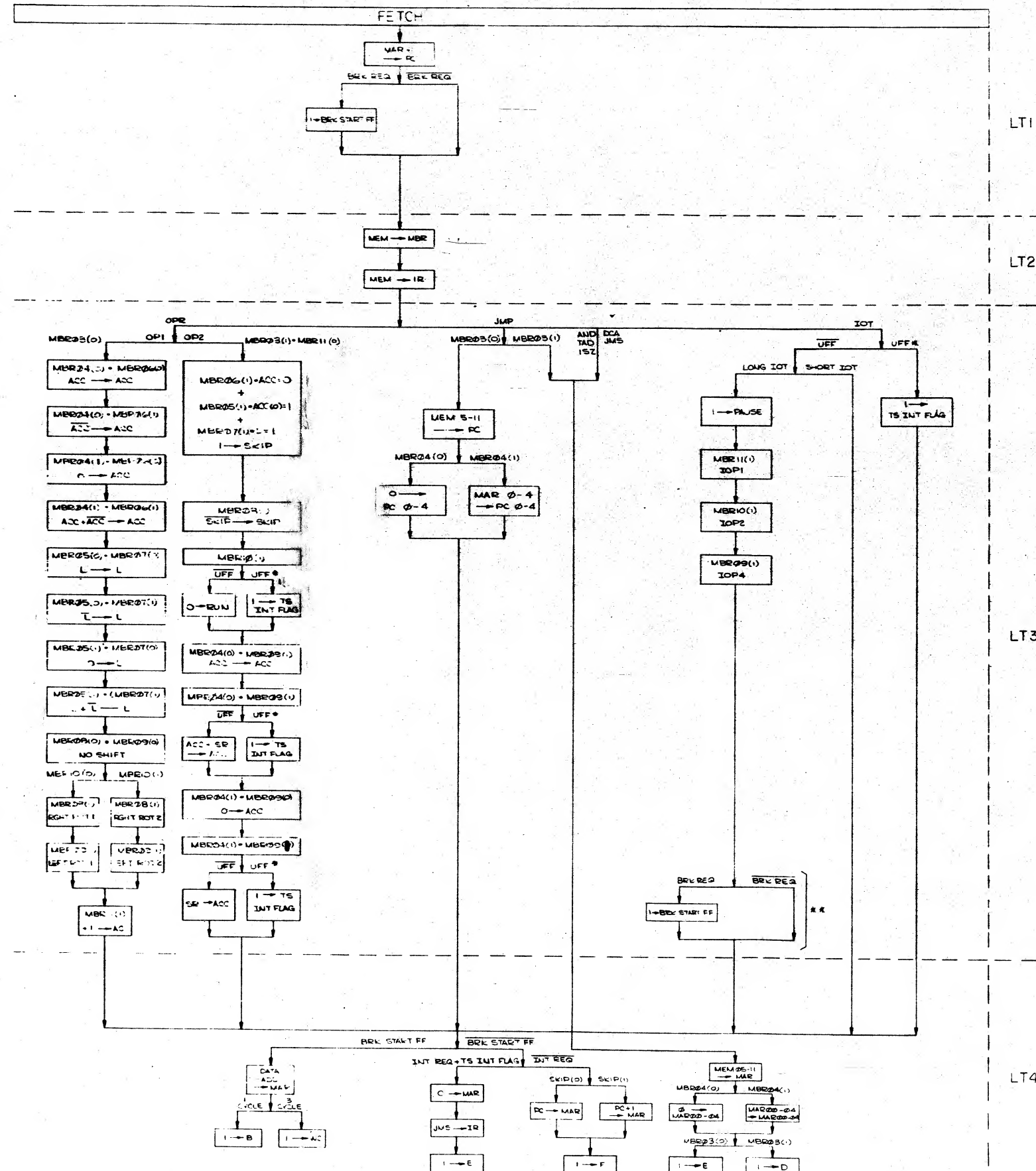
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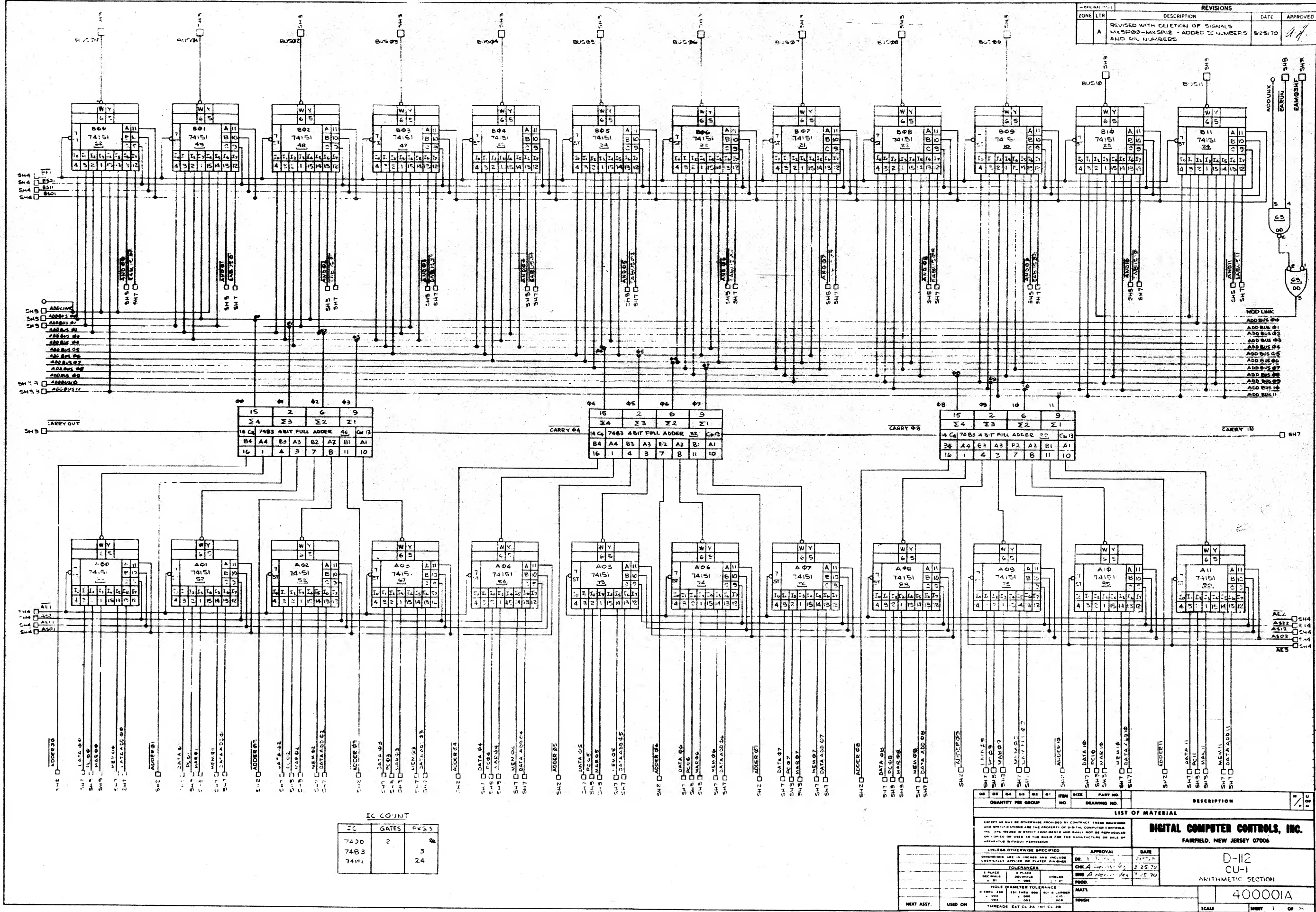
\* UFF: TIME SHAPING (SEE ELEM ONLY FOR TIME SCALES)  
 \*\* - OPTIONAL

Q6	Q5	Q4	Q3	Q2	Q1	REV	SIZE	PART NO	DESCRIPTION	M	U	P	H
QUANTITY PER GROUP													
LIST OF MATERIAL													
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8 THRU .001 12 THRU .002 16 THRU .003 20 THRU .004 24 THRU .005 28 THRU .006 32 THRU .007 36 THRU .008 40 THRU .009 44 THRU .010 48 THRU .011 52 THRU .012 56 THRU .013 60 THRU .014 64 THRU .015 68 THRU .016 72 THRU .017 76 THRU .018 80 THRU .019 84 THRU .020 88 THRU .021 92 THRU .022 96 THRU .023 100 THRU .024 104 THRU .025 108 THRU .026 112 THRU .027 116 THRU .028 120 THRU .029 124 THRU .030 128 THRU .031 132 THRU .032 136 THRU .033 140 THRU .034 144 THRU .035 148 THRU .036 152 THRU .037 156 THRU .038 160 THRU .039 164 THRU .040 168 THRU .041 172 THRU .042 176 THRU .043 180 THRU .044 184 THRU .045 188 THRU .046 192 THRU .047 196 THRU .048 200 THRU .049 204 THRU .050 208 THRU .051 212 THRU .052 216 THRU .053 220 THRU .054 224 THRU .055 228 THRU .056 232 THRU .057 236 THRU .058 240 THRU .059 244 THRU .060 248 THRU .061 252 THRU .062 256 THRU .063 260 THRU .064 264 THRU .065 268 THRU .066 272 THRU .067 276 THRU .068 280 THRU .069 284 THRU .070 288 THRU .071 292 THRU .072 296 THRU .073 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.216 872 THRU .217 876 THRU .218 880 THRU .219 884 THRU .220 888 THRU .221 892 THRU .222 896 THRU .223 900 THRU .224 904 THRU .225 908 THRU .226 912 THRU .227 916 THRU .228 920 THRU .229 924 THRU .230 928 THRU .231 932 THRU .232 936 THRU .233 940 THRU .234 944 THRU .235 948 THRU .236 952 THRU .237 956 THRU .238 960 THRU .239 964 THRU .240 968 THRU .241 972 THRU .242 976 THRU .243 980 THRU .244 984 THRU .245 988 THRU .246 992 THRU .247 996 THRU .248 1000 THRU .249 1004 THRU .250 1008 THRU .251 1012 THRU .252 1016 THRU .253 1020 THRU .254 1024 THRU .255 1028 THRU .256 1032 THRU .257 1036 THRU .258 1040 THRU .259 1044 THRU .260 1048 THRU .261 1052 THRU .262 1056 THRU .263 1060 THRU .264 1064 THRU .265 1068 THRU .266 1072 THRU .267 1076 THRU .268 1080 THRU .269 1084 THRU .270 1088 THRU .271 1092 THRU .272 1096 THRU .273 1100 THRU .274 1104 THRU .275 1108 THRU .276 1112 THRU .277 1116 THRU .278 1120 THRU .279 1124 THRU .280 1128 THRU .281 1132 THRU .282 1136 THRU .283 1140 THRU .284 1144 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1412 THRU .352 1416 THRU .353 1420 THRU .354 1424 THRU .355 1428 THRU .356 1432 THRU .357 1436 THRU .358 1440 THRU .359 1444 THRU .360 1448 THRU .361 1452 THRU .362 1456 THRU .363 1460 THRU .364 1464 THRU .365 1468 THRU .366 1472 THRU .367 1476 THRU .368 1480 THRU .369 1484 THRU .370 1488 THRU .371 1492 THRU .372 1496 THRU .373 1500 THRU .374 1504 THRU .375 1508 THRU .376 1512 THRU .377 1516 THRU .378 1520 THRU .379 1524 THRU .380 1528 THRU .381 1532 THRU .382 1536 THRU .383 1540 THRU .384 1544 THRU .385 1548 THRU .386 1552 THRU .387 1556 THRU .388 1560 THRU .389 1564 THRU .390 1568 THRU .391 1572 THRU .392 1576 THRU .393 1580 THRU .394 1584 THRU .395 1588 THRU .396 1592 THRU .397 1596 THRU .398 1600 THRU .399 1604 THRU .400 1608 THRU .401 1612 THRU .402 1616 THRU .403 1620 THRU .404 1624 THRU .405 1628 THRU .406 1632 THRU .407 1636 THRU .408 1640 THRU .409 1644 THRU .410 1648 THRU .411 1652 THRU .412 1656 THRU .413 1660 THRU .414 1664 THRU .415 1668 THRU .416 1672 THRU .417 1676 THRU .418 1680 THRU .419 1684 THRU .420 1688 THRU .421 1692 THRU .422 1696 THRU .423 1700 THRU .424 1704 THRU .425 1708 THRU .426 1712 THRU .427 1716 THRU .428 1720 THRU .429 1724 THRU .430 1728 THRU .431 1732 THRU .432 1736 THRU .433 1740 THRU .434 1744 THRU .435 1748 THRU .436 1752 THRU .437 1756 THRU .438 1760 THRU .439 1764 THRU .440 1768 THRU .441 1772 THRU .442 1776 THRU .443 1780 THRU .444 1784 THRU .445 1788 THRU .446 1792 THRU .447 1796 THRU .448 1800 THRU .449 1804 THRU .450 1808 THRU .451 1812 THRU .452 1816 THRU .453 1820 THRU .454 1824 THRU .455 1828 THRU .456 1832 THRU .457 1836 THRU .458 1840 THRU .459 1844 THRU .460 1848 THRU .461 1852 THRU .462 1856 THRU .463 1860 THRU .464 1864 THRU .465 1868 THRU .466 1872 THRU .467 1876 THRU .468 1880 THRU .469 1884 THRU .470 1888 THRU .471 1892 THRU .472 1896 THRU .473 1900 THRU .474 1904 THRU .475 1908 THRU .476 1912 THRU .477 1916 THRU .478 1920 THRU .479 1924 THRU .480 1928 THRU .481 1932 THRU .482 1936 THRU .483 1940 THRU .484 1944 THRU .485 1948 THRU .486 1952 THRU .487 1956 THRU .488 1960 THRU .489 1964 THRU .490 1968 THRU .491 1972 THRU .492 1976 THRU .493 1980 THRU .494 1984 THRU .495 1988 THRU .496 1992 THRU .497 1996 THRU .498 2000 THRU .499 2004 THRU .500 2008 THRU .501 2012 THRU .502 2016 THRU .503 2020 THRU .504 2024 THRU .505 2028 THRU .506 2032 THRU .507 2036 THRU .508 2040 THRU .509 2044 THRU .510 2048 THRU .511 2052 THRU .512 2056 THRU .513 2060 THRU .514 2064 THRU .515 2068 THRU .516 2072 THRU .517 2076 THRU .518 2080 THRU .519 2084 THRU .520 2088 THRU .521 2092 THRU .522 2096 THRU .523 2100 THRU .524 2104 THRU .525 2108 THRU .526 2112 THRU .527 2116 THRU .528 2120 THRU .529 2124 THRU .530 2128 THRU .531 2132 THRU .532 2136 THRU .533 2140 THRU .534 2144 THRU .535 2148 THRU .536 2152 THRU .537 2156 THRU .538 2160 THRU .539 2164 THRU .540 2168 THRU .541 2172 THRU .542 2176 THRU .543 2180 THRU .544 2184 THRU .545 2188 THRU .546 2192 THRU .547 2196 THRU .548 2200 THRU .549 2204 THRU .550 2208 THRU .551 2212 THRU .552 2216 THRU .553 2220 THRU .554 2224 THRU .555 2228 THRU .556 2232 THRU .557 2236 THRU .558 2240 THRU .559 2244 THRU .560 2248 THRU .561 2252 THRU .562 2256 THRU .563 2260 THRU .564 2264 THRU .565 2268 THRU .566 2272 THRU .567 2276 THRU .568 2280 THRU .569 2284 THRU .570 2288 THRU .571 2292 THRU .572 2296 THRU .573 2300 THRU .574 2304 THRU .575 2308 THRU .576 2312 THRU .577 2316 THRU .578 2320 THRU .579 2324 THRU .580 2328 THRU .581 2332 THRU .582 2336 THRU .583 2340 THRU .584 2344 THRU .585 2348 THRU .586 2352 THRU .587 2356 THRU .588 2360 THRU .589 2364 THRU .590 2368 THRU .591 2372 THRU .592 2376 THRU .593 2380 THRU .594 2384 THRU .595 2388 THRU .596 2392 THRU .597 2396 THRU .598 2400 THRU .599 2404 THRU .600 2408 THRU .601 2412 THRU .602 2416 THRU .603 2420 THRU .604 2424 THRU .605 2428 THRU .606 2432 THRU .607 2436 THRU .608 2440 THRU .609 2444 THRU .610 2448 THRU .611 2452 THRU .612 2456 THRU .613 2460 THRU .614 2464 THRU .615 2468 THRU .616 2472 THRU .617 2476 THRU .618 2480 THRU .619 2484 THRU .620 2488 THRU .621 2492 THRU .622 2496 THRU .623 2500 THRU .624 2504 THRU .625 2508 THRU .626 2512 THRU .627 2516 THRU .628 2520 THRU .629 2524 THRU .630 2528 THRU .631 2532 THRU .632 2536 THRU .633 2540 THRU .634 2544 THRU .635 2548 THRU .636 2552 THRU .637 2556 THRU .638 2560 THRU .639 2564 THRU .640 2568 THRU .641 2572 THRU .642 2576 THRU .643 2580 THRU .644 2584 THRU .645 2588 THRU .646 2592 THRU .647 2596 THRU .648 2600 THRU .649 2604 THRU .650 2608 THRU .651 2612 THRU .652 2616 THRU .653 2620 THRU .654 2624 THRU .655 2628 THRU .656 2632 THRU .657 2636 THRU .658 2640 THRU .659 2644 THRU .660 2648 THRU .661 2652 THRU .662 2656 THRU .663 2660 THRU .664 2664 THRU .665 2668 THRU .666 2672 THRU .667 2676 THRU .668 2680 THRU .669 2684 THRU .670 2688 THRU .671 2692 THRU .672 2696 THRU .673 2700 THRU .674 2704 THRU .675 2708 THRU .676 2712 THRU .677 2716 THRU .678 2720 THRU .679 2724 THRU .680 2728 THRU .681 2732 THRU .682 2736 THRU .683 2740 THRU .684 2744 THRU .685 2748 THRU .686 2752 THRU .687 2756 THRU .688 2760 THRU .689 2764 THRU .690 2768 THRU .691 2772 THRU .692 2776 THRU .693 2780 THRU .694 2784 THRU .695 2788 THRU .696 2792 THRU .697 2796 THRU .698 2800 THRU .699 2804 THRU .700 2808 THRU .701 2812 THRU .702 2816 THRU .703 2820 THRU .704 2824 THRU .705 2828 THRU .706 2832 THRU .707 2836 THRU .708 2840 THRU .709 2844 THRU .710 2848 THRU .711 2852 THRU .712 2856 THRU .713 2860 THRU .714 2864 THRU .715 2868 THRU .716 2872 THRU .717 2876 THRU .718 2880 THRU .719 2884 THRU .720 2888 THRU .721 2892 THRU .722 2896 THRU .723 2900 THRU .724 2904 THRU .725 2908 THRU .726 2912 THRU .727 2916 THRU .728 2920 THRU .729 2924 THRU .730 2928 THRU .731 2932 THRU .732 2936 THRU .733 2940 THRU .734 2944 THRU .735 2948 THRU .736 2952 THRU .737 2956 THRU .738 2960 THRU .739 2964 THRU .740 2968 THRU .741 2972 THRU .742 2976 THRU .743 2980 THRU .744 2984 THRU .745 2988 THRU .746 2992 THRU .747 2996 THRU .748 3000 THRU .749 3004 THRU .750 3008 THRU .751 3012 THRU .752 3016 THRU .753 3020 THRU .754 3024 THRU .755 3028 THRU .756 3032 THRU .757 3036 THRU .758 3040 THRU .759 3044 THRU .760 3048 THRU .761 3052 THRU .762 3056 THRU .763 3060 THRU .764 3064 THRU .765 3068 THRU .766 3072 THRU .767 3076 THRU .768 3080 THRU .769 3084 THRU .770 3088 THRU .771 3092 THRU .772 3096 THRU .773 3100 THRU .774 3104 THRU .775 3108 THRU .776 3112 THRU .777 3116 THRU .778 3120 THRU .779 3124 THRU .780 3128 THRU .781 3132 THRU .782 3136 THRU .783 3140 THRU .784 3144 THRU .785 3148 THRU .786 3152 THRU .787 3156 THRU .788 3160 THRU .789 3164 THRU .790 3168 THRU .791 3172 THRU .792 3176 THRU .793 3180 THRU .794 3184 THRU .795 3188 THRU .796 3192 THRU .797 3196 THRU .798 3200 THRU .799 3204 THRU .800 3208 THRU .801 3212 THRU .802 3216 THRU .803 3220 THRU .804 3224 THRU .805 3228 THRU .806 3232 THRU .807 3236 THRU .808 3240 THRU .809 3244 THRU .810 3248 THRU .811 3252 THRU .812 3256 THRU .813 3260 THRU .814 3264 THRU .815 3268 THRU .816 3272 THRU .817 3276 THRU .818 3280 THRU .819 3284 THRU .820 3288 THRU .821 3292 THRU .822 3296 THRU .823 3300 THRU .824 3304 THRU .825 3308 THRU .826 3312 THRU .827 3316 THRU .828 3320 THRU .829 3324 THRU .830 3328 THRU .831 3332 THRU .832 3336 THRU .833 3340 THRU .834 3344 THRU .835 3348 THRU .836 3352 THRU .837 3356 THRU .838 3360 THRU .839 3364 THRU .840 3368 THRU .841 3372 THRU .842 3376 THRU .843 3380 THRU .844 3384 THRU .845 3388 THRU .846 3392 THRU .847 3396 THRU .848 3400 THRU .849 3404 THRU .850 3408 THRU .851 3412 THRU .852 3416 THRU .853 3420 THRU .854 3424 THRU .855 3428 THRU .856 3432 THRU .857 3436 THRU .858 3440 THRU .859 3444 THRU .860 3448 THRU .861 3452 THRU .862 3456 THRU .863 3460 THRU .864 3464 THRU .865 3468 THRU .866 3472 THRU .867 3476 THRU .868 3480 THRU .869 3484 THRU .870 3488 THRU .871 3492 THRU .872 3496 THRU .873 3500 THRU .874 3504 THRU .875 3508 THRU .876 3512 THRU .877 3516 THRU .878 3520 THRU .879 3524 THRU .880 3528 THRU .881 3532 THRU .882 3536 THRU .883 3540 THRU .884 3544 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3812 THRU .952 3816 THRU .953 3820 THRU .954 3824 THRU .955 3828 THRU .956 3832 THRU .957 3836 THRU .958 3840 THRU .959 3844 THRU .960 3848 THRU .961 3852 THRU .962 3856 THRU .963 3860 THRU .964 3864 THRU .965 3868 THRU .966 3872 THRU .967 3876 THRU .968 3880 THRU .969 3884 THRU .970 3888 THRU .971 3892 THRU .972 3896 THRU .973 3900 THRU .974 3904 THRU .975 3908 THRU .976 3912 THRU .977 3916 THRU .978 3920 THRU .979 3924 THRU .980 3928 THRU .981 3932 THRU .982 3936 THRU .983 3940 THRU .984 3944 THRU .985 3948 THRU .986 3952 THRU .987 3956 THRU .988 3960 THRU .989 3964 THRU .990 3968 THRU .991 3972 THRU .992 3976 THRU .993 3980 THRU .994 3984 THRU .995 3988 THRU .996 3992 THRU .997 3996 THRU .998 4000 THRU .999 4004 THRU .1000 4008 THRU .1001 4012 THRU .1002 4016 THRU .1003 4020 THRU .1004 4024 THRU .1005 4028 THRU .1006 4032 THRU .1007 4036 THRU .1008 4040 THRU .1009 4044 THRU .1010 4048 THRU .1011 4052 THRU .1012 4056 THRU .1013 4060 THRU .1014 4064 THRU .1015 4068 THRU .1016 4072 THRU .1017 4076 THRU .1018 4080 THRU .1019 4084 THRU .1020 4088 THRU .1021 4092 THRU .1022 4096 THRU .1023 4100 THRU .1024 4104 THRU .1025 4108 THRU .1026 4112 THRU .1027 4116 THRU .1028 4120 THRU .1029 4124 THRU .1030 4128 THRU .1031 4132 THRU .1032 4136 THRU .1033 4140 THRU .1034 4144 THRU .1035 4148 THRU .1036 4152 THRU .1037 4156 THRU .1038 4160 THRU .1039 4164 THRU .1040 4168 THRU .1041 4172 THRU .1042 4176 THRU .1043 4180 THRU .1044 4184 THRU .1045 4188 THRU .1046 4192 THRU .1047 4196 THRU .1048 4200 THRU .1049 4204 THRU .1050 4208 THRU .1051 4212 THRU .1052 4216 THRU .1053 4220 THRU .1054 4224 THRU .1055 4228 THRU .1056 4232 THRU .1057 4236 THRU .1058 4240 TH													





REVISIONS		DATE	APPROVED
ZONE	LTR		
A		8/25/70	<i>[Signature]</i>
REVISED WITH DELETION OF SIGNALS MAX5000-MAX5012 - ADDED IC NUMBERS AND PIN NUMBERS			



IC COUNT

IC	GATES	PINS
7400	2	24
7483		3
74151		24

QUANTITY PER GROUP		NO.	DESCRIPTION
00	01	02	03

LIST OF MATERIAL		DATE	APPROVAL
NO.	DESCRIPTION		
01	74151	8/25/70	<i>[Signature]</i>
02	7483		
03	7400		

UNLESS OTHERWISE SPECIFIED		APPROVAL	
DIMENSIONS ARE IN INCHES AND INCLUDE		DATE	
CHEMICALLY APPLIED OR PLATED FINISHES		8/25/70	
TOLERANCES		PROD.	
F. PLACE		MATERIAL	
HOLE DIAMETER TOLERANCE		FINISH	
THREADS EXT. CL. 2B INT. CL. 2B			

NEXT ASSY.		USED ON	

**DIGITAL COMPUTER CONTROLS, INC.**  
FAIRFIELD, NEW JERSEY 07006

D-112  
CU-1  
ARITHMETIC SECTION

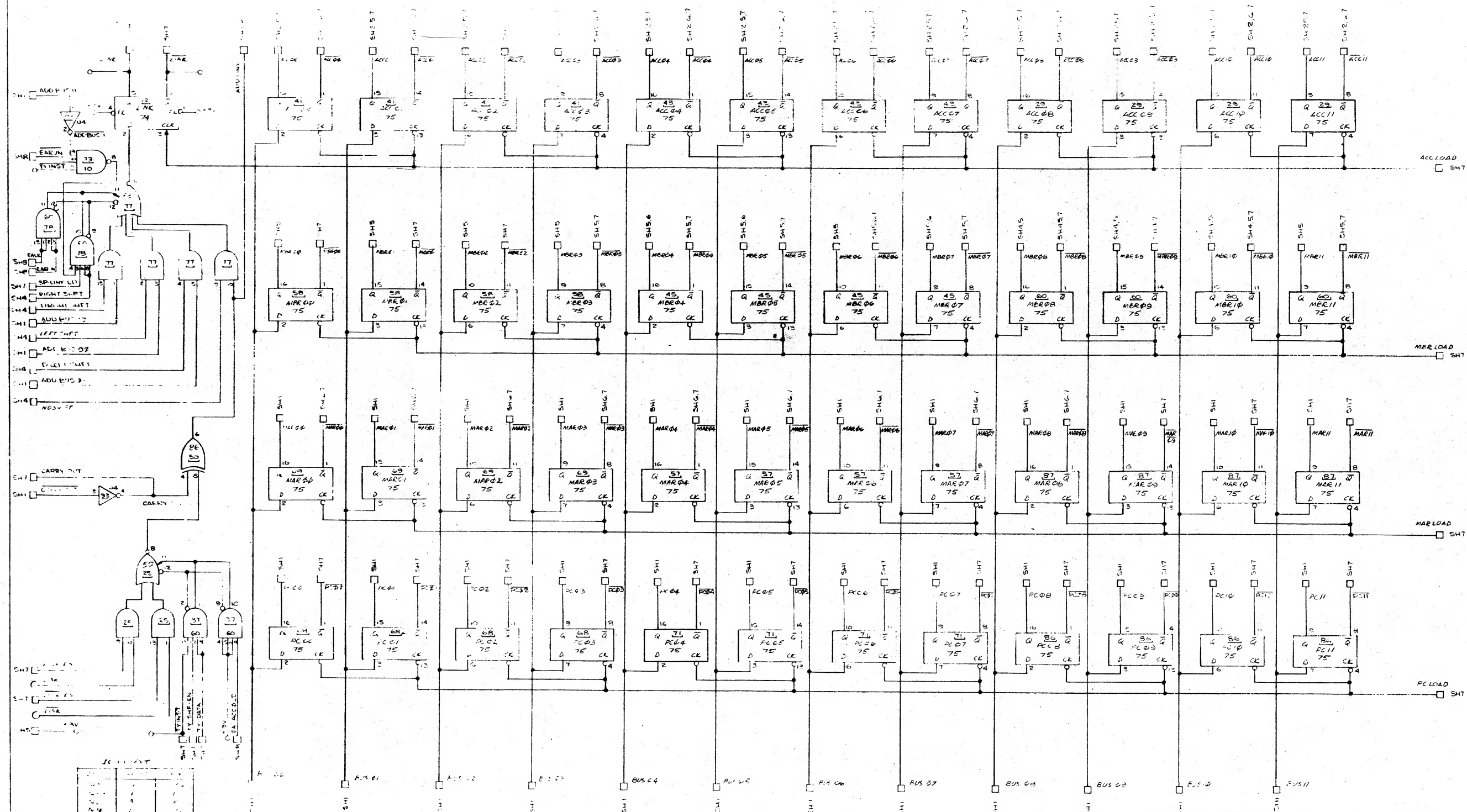
4000001A

SCALE 1 OF 1





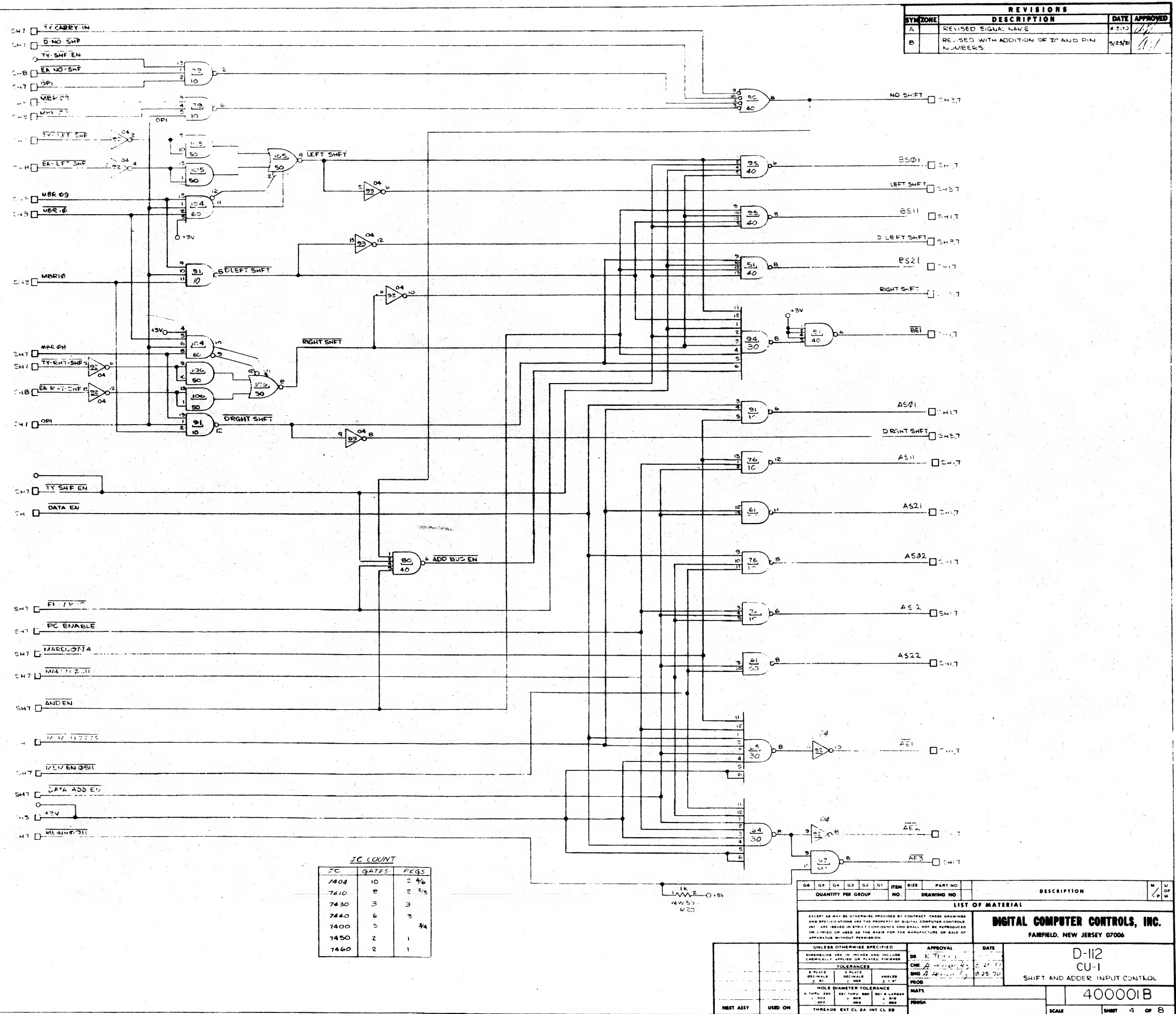
REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED
A	REVISED WITH ADDITION OF 75 AND PIN NUMBERS	5/25/70	1/1
B	REVISED PER ECU 00021	12/10/70	F.02



ITEM	QTY	UNIT
74LS175	12	IC
74LS10	1	IC
74LS00	1	IC
74LS04	1	IC
74LS08	1	IC
74LS01	1	IC
74LS02	1	IC
74LS03	1	IC
74LS04	1	IC
74LS05	1	IC
74LS06	1	IC
74LS07	1	IC
74LS08	1	IC
74LS09	1	IC
74LS10	1	IC
74LS11	1	IC
74LS12	1	IC
74LS13	1	IC
74LS14	1	IC
74LS15	1	IC
74LS16	1	IC
74LS17	1	IC
74LS18	1	IC
74LS19	1	IC
74LS20	1	IC
74LS21	1	IC
74LS22	1	IC
74LS23	1	IC
74LS24	1	IC
74LS25	1	IC
74LS26	1	IC
74LS27	1	IC
74LS28	1	IC
74LS29	1	IC
74LS30	1	IC
74LS31	1	IC
74LS32	1	IC
74LS33	1	IC
74LS34	1	IC
74LS35	1	IC
74LS36	1	IC
74LS37	1	IC
74LS38	1	IC
74LS39	1	IC
74LS40	1	IC
74LS41	1	IC
74LS42	1	IC
74LS43	1	IC
74LS44	1	IC
74LS45	1	IC
74LS46	1	IC
74LS47	1	IC
74LS48	1	IC
74LS49	1	IC
74LS50	1	IC
74LS51	1	IC
74LS52	1	IC
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74LS62	1	IC
74LS63	1	IC
74LS64	1	IC
74LS65	1	IC
74LS66	1	IC
74LS67	1	IC
74LS68	1	IC
74LS69	1	IC
74LS70	1	IC
74LS71	1	IC
74LS72	1	IC
74LS73	1	IC
74LS74	1	IC
74LS75	1	IC
74LS76	1	IC
74LS77	1	IC
74LS78	1	IC
74LS79	1	IC
74LS80	1	IC
74LS81	1	IC
74LS82	1	IC
74LS83	1	IC
74LS84	1	IC
74LS85	1	IC
74LS86	1	IC
74LS87	1	IC
74LS88	1	IC
74LS89	1	IC
74LS90	1	IC
74LS91	1	IC
74LS92	1	IC
74LS93	1	IC
74LS94	1	IC
74LS95	1	IC
74LS96	1	IC
74LS97	1	IC
74LS98	1	IC
74LS99	1	IC

QTY	GROUP	NO	DESCRIPTION	U OF
12	74LS175	1	D-TYPE FLIP-FLOP	IC
1	74LS10	1	3-INPUT NAND GATE	IC
1	74LS00	1	NAND GATE	IC
1	74LS04	1	INVERTER	IC
1	74LS08	1	4-INPUT AND GATE	IC
1	74LS01	1	MONOSTABLE MULTIVIBRATOR	IC
1	74LS02	1	MONOSTABLE MULTIVIBRATOR	IC
1	74LS03	1	MONOSTABLE MULTIVIBRATOR	IC
1	74LS04	1	INVERTER	IC
1	74LS05	1	INVERTER	IC
1	74LS06	1	INVERTER	IC
1	74LS07	1	INVERTER	IC
1	74LS08	1	4-INPUT AND GATE	IC
1	74LS09	1	4-INPUT AND GATE	IC
1	74LS10	1	3-INPUT NAND GATE	IC
1	74LS11	1	3-INPUT NAND GATE	IC
1	74LS12	1	3-INPUT NAND GATE	IC
1	74LS13	1	3-INPUT NAND GATE	IC
1	74LS14	1	555 TIMING IC	IC
1	74LS15	1	555 TIMING IC	IC
1	74LS16	1	555 TIMING IC	IC
1	74LS17	1	555 TIMING IC	IC
1	74LS18	1	555 TIMING IC	IC
1	74LS19	1	555 TIMING IC	IC
1	74LS20	1	6-INPUT AND GATE	IC
1	74LS21	1	6-INPUT AND GATE	IC
1	74LS22	1	6-INPUT AND GATE	IC
1	74LS23	1	6-INPUT AND GATE	IC
1	74LS24	1	6-INPUT AND GATE	IC
1	74LS25	1	6-INPUT AND GATE	IC
1	74LS26	1	6-INPUT AND GATE	IC
1	74LS27	1	6-INPUT AND GATE	IC
1	74LS28	1	6-INPUT AND GATE	IC
1	74LS29	1	6-INPUT AND GATE	IC
1	74LS30	1	6-INPUT AND GATE	IC
1	74LS31	1	6-INPUT AND GATE	IC
1	74LS32	1	6-INPUT AND GATE	IC
1	74LS33	1	6-INPUT AND GATE	IC
1	74LS34	1	6-INPUT AND GATE	IC
1	74LS35	1	6-INPUT AND GATE	IC
1	74LS36	1	6-INPUT AND GATE	IC
1	74LS37	1	6-INPUT AND GATE	IC
1	74LS38	1	6-INPUT AND GATE	IC
1	74LS39	1	6-INPUT AND GATE	IC
1	74LS40	1	6-INPUT AND GATE	IC
1	74LS41	1	6-INPUT AND GATE	IC
1	74LS42	1	6-INPUT AND GATE	IC
1	74LS43	1	6-INPUT AND GATE	IC
1	74LS44	1	6-INPUT AND GATE	IC
1	74LS45	1	6-INPUT AND GATE	IC
1	74LS46	1	6-INPUT AND GATE	IC
1	74LS47	1	6-INPUT AND GATE	IC
1	74LS48	1	6-INPUT AND GATE	IC
1	74LS49	1	6-INPUT AND GATE	IC
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1	74LS51	1	6-INPUT AND GATE	IC
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1	74LS59	1	6-INPUT AND GATE	IC
1	74LS60	1	6-INPUT AND GATE	IC
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1	74LS62	1	6-INPUT AND GATE	IC
1	74LS63	1	6-INPUT AND GATE	IC
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1	74LS65	1	6-INPUT AND GATE	IC
1	74LS66	1	6-INPUT AND GATE	IC
1	74LS67	1	6-INPUT AND GATE	IC
1	74LS68	1	6-INPUT AND GATE	IC
1	74LS69	1	6-INPUT AND GATE	IC
1	74LS70	1	8-INPUT AND GATE	IC
1	74LS71	1	8-INPUT AND GATE	IC
1	74LS72	1	8-INPUT AND GATE	IC
1	74LS73	1	8-INPUT AND GATE	IC
1	74LS74	1	8-INPUT AND GATE	IC
1	74LS75	1	8-INPUT AND GATE	IC
1	74LS76	1	8-INPUT AND GATE	IC
1	74LS77	1	8-INPUT AND GATE	IC
1	74LS78	1	8-INPUT AND GATE	IC
1	74LS79	1	8-INPUT AND GATE	IC
1	74LS80	1	8-INPUT AND GATE	IC
1	74LS81	1	8-INPUT AND GATE	IC
1	74LS82	1	8-INPUT AND GATE	IC
1	74LS83	1	8-INPUT AND GATE	IC
1	74LS84	1	8-INPUT AND GATE	IC
1	74LS85	1	8-INPUT AND GATE	IC
1	74LS86	1	8-INPUT AND GATE	IC
1	74LS87	1	8-INPUT AND GATE	IC
1	74LS88	1	8-INPUT AND GATE	IC
1	74LS89	1	8-INPUT AND GATE	IC
1	74LS90	1	8-INPUT AND GATE	IC
1	74LS91	1	8-INPUT AND GATE	IC
1	74LS92	1	8-INPUT AND GATE	IC
1	74LS93	1	8-INPUT AND GATE	IC
1	74LS94	1	8-INPUT AND GATE	IC
1	74LS95	1	8-INPUT AND GATE	IC
1	74LS96	1	8-INPUT AND GATE	IC
1	74LS97	1	8-INPUT AND GATE	IC
1	74LS98	1	8-INPUT AND GATE	IC
1	74LS99	1	8-INPUT AND GATE	IC



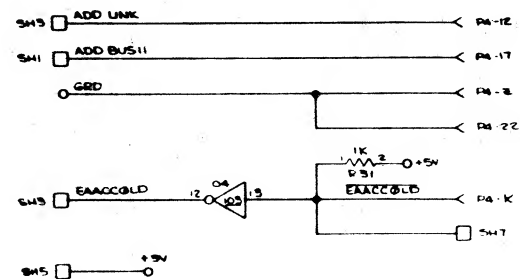















MPNEN	SHEET 1	SHEET 2	SHEET 3	SHEET 4	SHEET 5	SHEET 6	SHEET 7	SHEET 8	SPARE	DOE PART NUMBER	3	22	23
7400	24			24	5 24		24	24		000100	5	5	5
7402					24		24	24		000172		1	
7404			24	24	24		24	24		000104	12	2	2
7410			2	2 24						000110	4	4	4
7430				3	1	2				000130	4	2	4
7440				3	1	1/2	1/2			000140	5	5	5
7450			1/2 E	2 1/2 E	1/2				24	000150	3	3	3
7453		12	1							000153	13	13	13
7460		6	2	1						000160	2	9	3
7474			1/2		1 1/2					000174	2	2	2
7475			12							000175	12	12	12
7483	3									000183	3	3	3
7486			24			24		24		000186	1	1	1
74151	24									000251	24	24	24
1K2				R20	R10		R27 1/2 R17 1/2 R1 1/2	R27 1/2 R23 4		002762	33	33	33
47K					R15					003130		1	1
01uF					24 C23 25			C5-C14 C17 22		007001	20	20	20
22uF					C3					007133	1	1	1
02uF								C6C6		007002	2	2	2
60uF								C1,C15		007153	2	2	2
1N4148					D1,D2 D3,D4					000500	4	4	4



IC	GATES	PKGS
7404	5	246
7402	1	44
7486	1	44

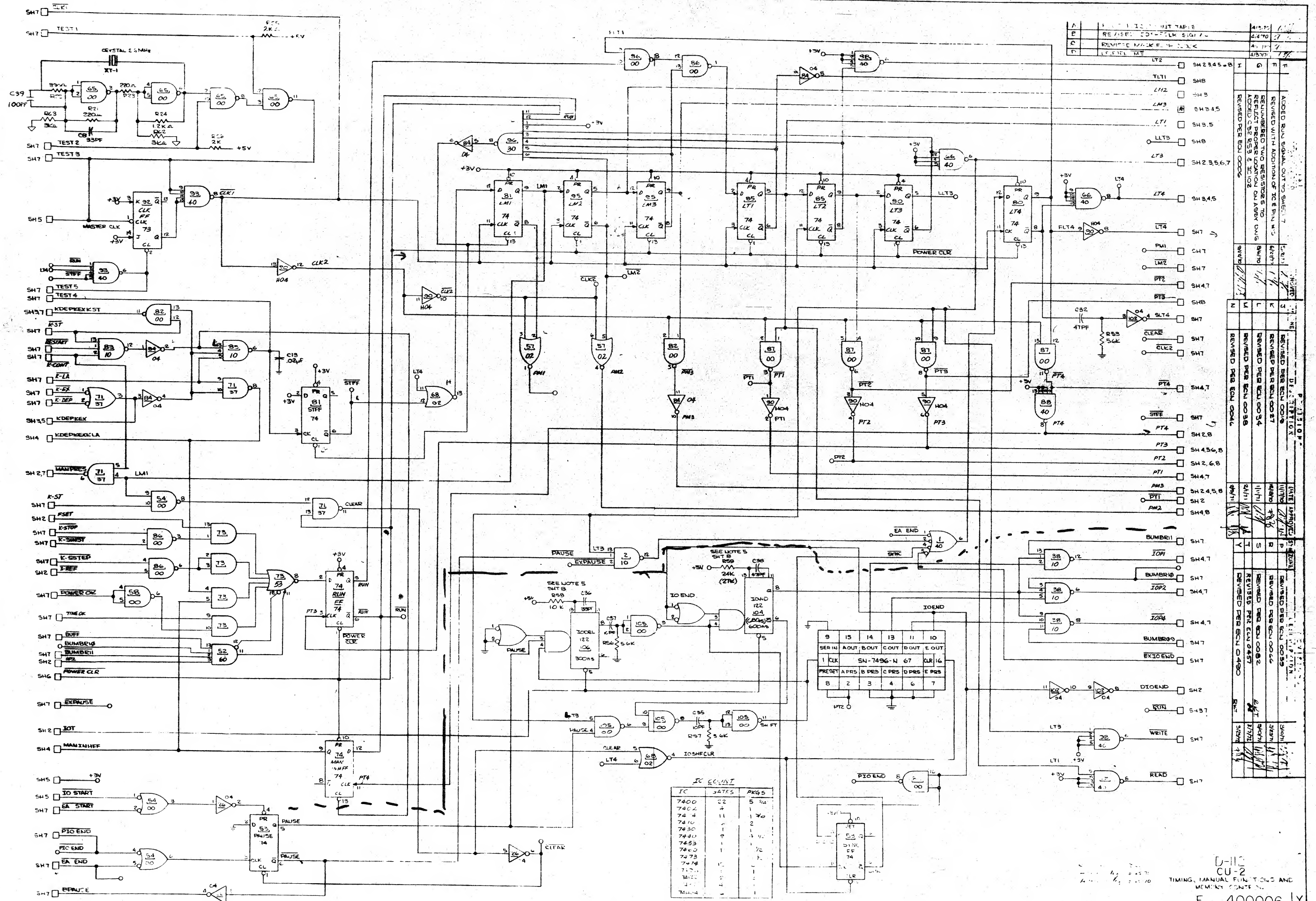
NOTES:

1. —  THIS SYMBOL REFERS TO A CONNECTOR PIN.
2. —  THIS SYMBOL REFERS TO AN INTERCONNECTION ON A DIFFERENT SHEET.
3. —  THIS SYMBOL REFERS TO AN INTERCONNECTION WITHIN THE SAME SHEET.
4. ALL UNDERLINED NUMBERS DENOTE IC LOCATION ON THE PC.

SHEET	1	2	3	4	5	6	7	8
REVISION	A	A	B	B	C	A	D	H

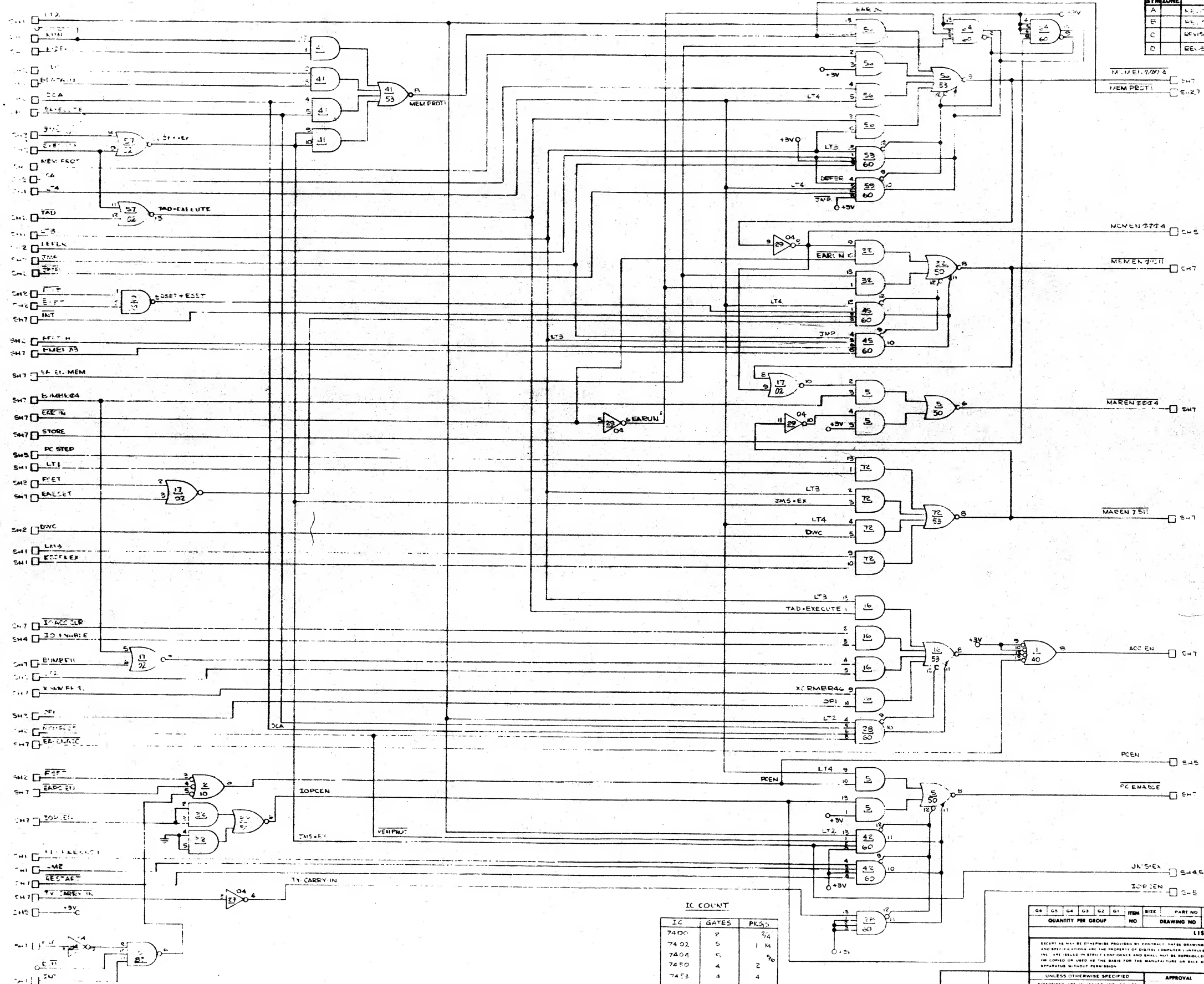
Q1	BASIC COMPUTER
Q2	BASIC COMPUTER PLUS EX-ARITHMETIC OPTION
Q3	BASIC COMPUTER PLUS TTY OPTION

[illegible]







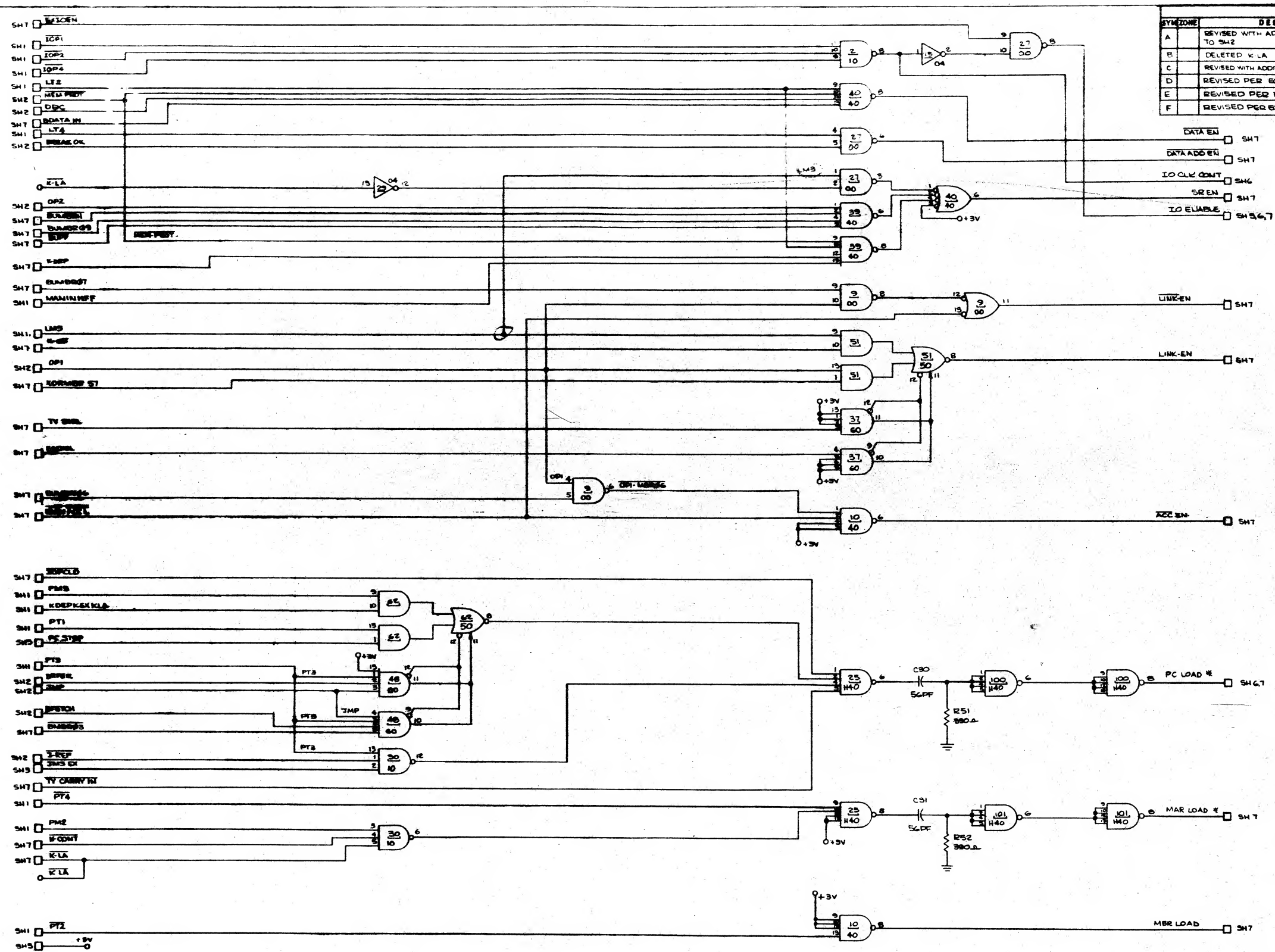


REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED
A	REVISED FOR 100% TEST	4/10/70	1/1
B	REVISED FOR 100% TEST	4/10/70	1/1
C	REVISED WITH ADDITION OF TEST NUMBERS	4/10/70	1/1
D	REVISED PER ECH 2005	9/2/70	1/1

IC COUNT		
IC	GATES	PKGS
7400	2	1/4
7402	5	1/4
7404	5	1/4
7408	4	2
7410	4	4
7412	10	5
7414	1	1/2
7416	1	1/2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60	Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100
LIST OF MATERIAL																																																																																																			
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UNLESS OTHERWISE SPECIFIED:																																																																																																			
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES.																																																																																																			
TOLERANCES:																																																																																																			
F. PLACE: 1/16" DECIMALS 1/32" ANGLES 1/16" F.																																																																																																			
HOLE DIAMETER TOLERANCE: 0.001" 0.002" 0.003" 0.004" 0.005" 0.006" 0.007" 0.008" 0.009" 0.010" 0.011" 0.012" 0.013" 0.014" 0.015" 0.016" 0.017" 0.018" 0.019" 0.020" 0.021" 0.022" 0.023" 0.024" 0.025" 0.026" 0.027" 0.028" 0.029" 0.030" 0.031" 0.032" 0.033" 0.034" 0.035" 0.036" 0.037" 0.038" 0.039" 0.040" 0.041" 0.042" 0.043" 0.044" 0.045" 0.046" 0.047" 0.048" 0.049" 0.050" 0.051" 0.052" 0.053" 0.054" 0.055" 0.056" 0.057" 0.058" 0.059" 0.060" 0.061" 0.062" 0.063" 0.064" 0.065" 0.066" 0.067" 0.068" 0.069" 0.070" 0.071" 0.072" 0.073" 0.074" 0.075" 0.076" 0.077" 0.078" 0.079" 0.080" 0.081" 0.082" 0.083" 0.084" 0.085" 0.086" 0.087" 0.088" 0.089" 0.090" 0.091" 0.092" 0.093" 0.094" 0.095" 0.096" 0.097" 0.098" 0.099" 0.100"																																																																																																			
APPROVAL: DATE: 4/10/70																																																																																																			
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SHEET 3 OF 8																																																																																																			





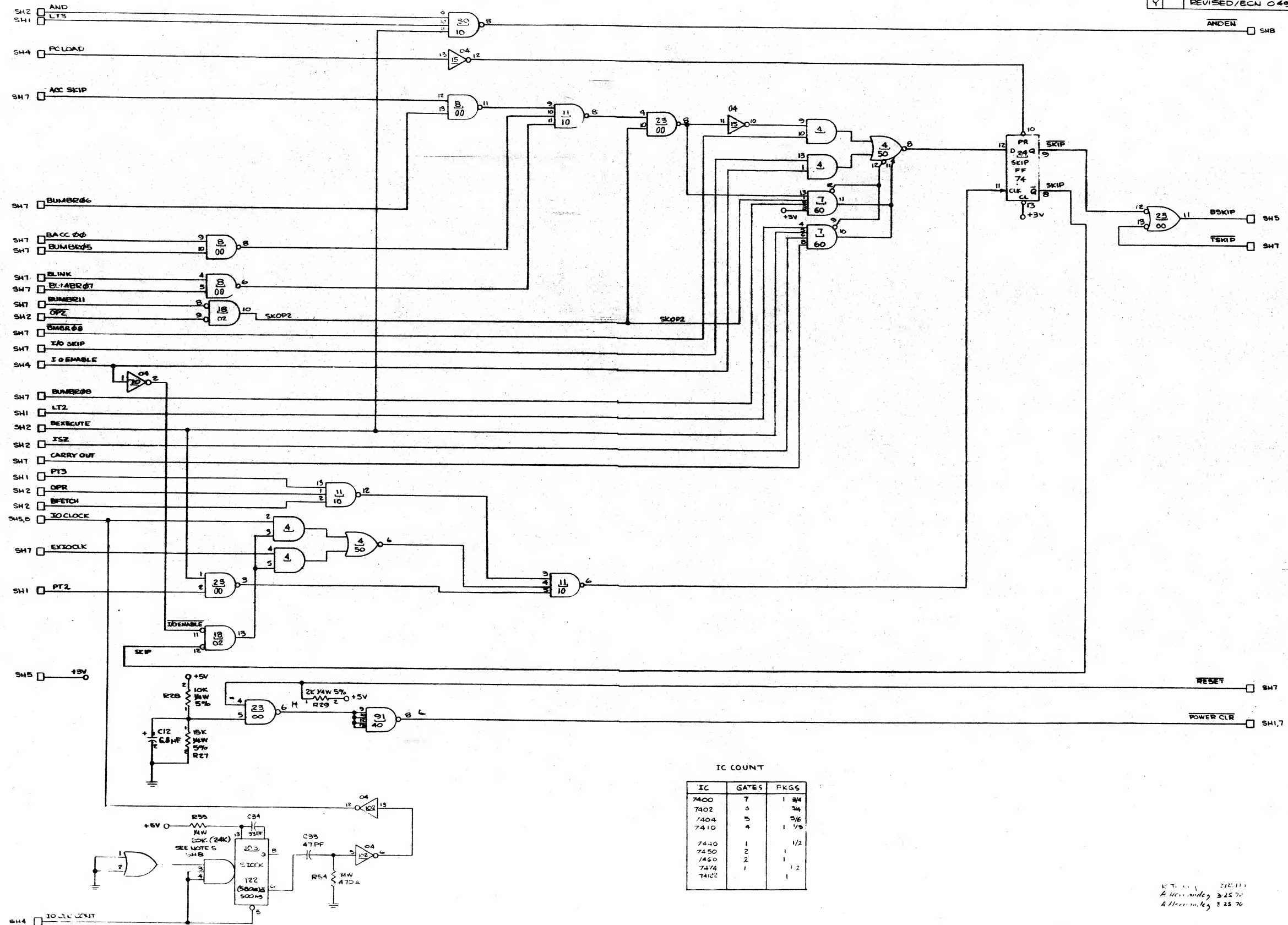
REVISIONS		
SYMBOL	DESCRIPTION	DATE
A	REVISED WITH ADDITION OF FREE SIGNAL TO SW2	4/16/70
B	DELETED K-LA	4/30/70
C	REVISED WITH ADDITION OF IC PIN NUMBERS	4/30/70
D	REVISED PER ECN 0007	5/17/70
E	REVISED PER ECN 0034	11/11/71
F	REVISED PER ECN 0066	5/25/72

IC COUNT		
IC	GATES	PKGS
7400	6	1 2A
7404	2	5A
7410	3	1
7440	4	3
7450	2	2-E
7460	4	2
74H40	6	3

08	09	04	03	02	01	ITEM	SIZE	PART NO	DESCRIPTION	H	U	P	M
QUANTITY PER GROUP													
LIST OF MATERIAL													
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DIGITAL COMPUTER CONTROLS, INC. ARE ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT PERMISSION.										DIGITAL COMPUTER CONTROLS, INC. FAIRFIELD, NEW JERSEY 07006			
UNLESS OTHERWISE SPECIFIED										APPROVAL			
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES										DATE			
TOLERANCES										DR. K. THREE			
F. PLACE										CH. A. Hernandez			
HOLE DIAMETER TOLERANCE										DATE			
F. THRU 1/16"										5/15/70			
F. THRU 1/8"										5/15/70			
F. THRU 1/4"										5/15/70			
F. THRU 3/8"										5/15/70			
F. THRU 1/2"										5/15/70			
F. THRU 3/4"										5/15/70			
F. THRU 1"										5/15/70			
F. THRU 1 1/4"										5/15/70			
F. THRU 1 1/2"										5/15/70			
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F. THRU 6"										5/15/70			
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F. THRU 6 3/4"										5/15/70			
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F. THRU 10 3/4"										5/15/70			
F. THRU 11"										5/15/70			
F. THRU 11 1/4"										5/15/70			
F. THRU 11 1/2"										5/15/70			
F. THRU 11 3/4"										5/15/70			
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F. THRU 16 1/2"										5/15/70			
F. THRU 16 3/4"										5/15/70			
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F. THRU 17 1/4"										5/15/70			
F. THRU 17 1/2"										5/15/70			
F. THRU 17 3/4"										5/15/70			
F. THRU 18"										5/15/70			
F. THRU 18 1/4"										5/15/70			
F. THRU 18 1/2"										5/15/70			
F. THRU 18 3/4"										5/15/70			
F. THRU 19"										5/15/70			
F. THRU 19 1/4"										5/15/70			
F. THRU 19 1/2"										5/15/70			
F. THRU 19 3/4"										5/15/70			
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F. THRU 20 1/4"										5/15/70			
F. THRU 20 1/2"										5/15/70			
F. THRU 20 3/4"										5/15/70			
F. THRU 21"										5/15/70			
F. THRU 21 1/4"										5/15/70			
F. THRU 21 1/2"										5/15/70			
F. THRU 21 3/4"										5/15/70			
F. THRU 22"										5/15/70			
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F. THRU 22 3/4"										5/15/70			
F. THRU 23"										5/15/70			
F. THRU 23 1/4"										5/15/70			
F. THRU 23 1/2"										5/15/70			
F. THRU 23 3/4"										5/15/70			
F. THRU 24"										5/15/70			
F. THRU 24 1/4"										5/15/70			
F. THRU 24 1/2"										5/15/70			
F. THRU 24 3/4"										5/15/70			
F. THRU 25"										5/15/70			
F. THRU 25 1/4"										5/15/70			
F. THRU 25 1/2"										5/15/70			
F. THRU 25 3/4"										5/15/70			
F. THRU 26"										5/15/70			
F. THRU 26 1/4"										5/15/70			
F. THRU 26 1/2"										5/15/70			
F. THRU 26 3/4"										5/15/70			
F. THRU 27"										5/15/70			
F. THRU 27 1/4"										5/15/70			
F. THRU 27 1/2"										5/15/70			
F. THRU 27 3/4"										5/15/70			
F. THRU 28"										5/15/70			
F. THRU 28 1/4"										5/15/70			
F. THRU 28 1/2"										5/15/70			
F. THRU 28 3/4"										5/15/70			
F. THRU 29"										5/15/70			
F. THRU 29 1/4"										5/15/70			
F. THRU 29 1/2"										5/15/70			
F. THRU 29 3/4"										5/15/70			
F. THRU 30"										5/15/70			
F. THRU 30 1/4"										5/15/70			
F. THRU 30 1/2"										5/15/70			
F. THRU 30 3/4"										5/15/70			
F. THRU 31"										5/15/70			
F. THRU 31 1/4"										5/15/70			
F. THRU 31 1/2"										5/15/70			
F. THRU 31 3/4"										5/15/70			
F. THRU 32"										5/15/70			
F. THRU 32 1/4"										5/15/70			
F. THRU 32 1/2"										5/15/70			
F. THRU 32 3/4"										5/15/70			
F. THRU 33"										5/15/70			
F. THRU 33 1/4"										5/15/70			
F. THRU 33 1/2"										5/15/70			
F. THRU 33 3/4"										5/15/70			
F. THRU 34"										5/15/70			
F. THRU 34 1/4"										5/15/70			
F. THRU 34 1/2"										5/15/70			
F. THRU 34 3/4"										5/15/70			
F. THRU 35"										5/15/70			
F. THRU 35 1/4"										5/15/70			
F. THRU 35 1/2"										5/15/70			
F. THRU 35 3/4"										5/15/70			
F. THRU 36"										5/15/70			
F. THRU 36 1/4"										5/15/70			
F. THRU 36 1/2"										5/15/70			
F. THRU 36 3/4"										5/15/70			
F. THRU 37"										5/15/70			
F. THRU 37 1/4"										5/15/70			
F. THRU 37 1/2"										5/15/70			
F. THRU 37 3/4"										5/15/70			
F. THRU 38"										5/15/70			
F. THRU 38 1/4"										5/15/70			
F. THRU 38 1/2"										5/15/70			
F. THRU 38 3/4"										5/15/70			
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F. THRU 39 1/4"										5/15/70			
F. THRU 39 1/2"										5/15/70			
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F. THRU 40 1/4"										5/15/70			
F. THRU 40 1/2"										5/15/70			
F. THRU 40 3/4"										5/15/70			
F. THRU 41"										5/15/70			
F. THRU 41 1/4"										5/15/70			
F. THRU 41 1/2"										5/15/70			
F. THRU 41 3/4"										5/15/70			
F. THRU 42"										5/15/70			
F. THRU 42 1/4"										5/15/70			
F. THRU 42 1/2"										5/15/70			
F. THRU 42 3/4"										5/15/70			
F. THRU 43"										5/15/70			
F. THRU 43 1/4"										5/15/70			
F. THRU 43 1/2"										5/15/70			
F. THRU 43 3/4"										5/15/70			
F. THRU 44"										5/15/70			
F. THRU 44 1/4"										5/15/70			
F. THRU 44 1/2"										5/15/70			
F. THRU 44 3/4"										5/15/70			
F. THRU 45"										5/15/70			
F. THRU 45 1/4"										5/15/70			
F. THRU 45 1/2"										5/15/70			
F. THRU 45 3/4"										5/15/70			
F. THRU 46"										5/15/70			
F. THRU 46 1/4"										5/15/70			
F. THRU 46 1/2"										5/15/70			
F. THRU 46 3/4"										5/15/70			
F. THRU 47"										5/15/70			
F. THRU 47 1/4"										5/15/70			
F. THRU 47 1/2"										5/15/70			
F. THRU 47 3/4"										5/15/70			
F. THRU 48"										5/15/70			
F. THRU 48 1/4"										5/15/70			
F. THRU 48 1/2"										5/15/70			
F. THRU 48 3/4"										5/15/70			
F. THRU 49"										5/15/70			
F. THRU 49 1/4"										5/15/70			
F. THRU 49 1/2"										5/15/70			
F. THRU 49 3/4"										5/15/70			
F. THRU 50"										5/15/70			
F. THRU 50 1/4"										5/15/70			
F. THRU 50 1/2"										5/15/70			
F. THRU 50 3/4"										5/15/70			
F. THRU 51"										5/15/70			
F. THRU 51 1/4"										5/15/70			
F. THRU 51 1/2"										5/15/70			
F. THRU 51 3/4"										5/15/70			
F. THRU 52"										5/15/70			
F. THRU 52 1/4"										5/15/70			
F. THRU 52 1/2"										5/15/70			
F. THRU 52 3/4"										5/15/70			
F. THRU 53"										5/15/70			
F. THRU 53 1/4"										5/15/70			
F. THRU 53 1/2"										5/15/70			
F. THRU 53 3/4"										5/15/70			
F. THRU 54"										5/15/70			
F. THRU 54 1/4"										5/15/70			
F. THRU 54 1/2"										5/15/70			
F. THRU 54 3/4"										5/15/70			
F. THRU 55"										5/15/70			
F. THRU 55 1/4"										5/15/70			
F. THRU 55 1/2"										5/15/70			
F. THRU 55 3/4"										5/15/70			
F. THRU 56"										5/15/70			
F. THRU 56 1/4"										5/15/70			
F. THRU 56 1/2"										5/15/70			
F. THRU 56 3/4"										5/15/70			
F. THRU 57"										5/15/70			
F. THRU 57 1/4"										5/15/70			
F. THRU 57 1/2"										5/15/70			
F. THRU 57 3/4"										5/15/70			
F. THRU 58"										5/15/70			
F. THRU 58 1/4"										5/15/70			
F. THRU 58 1/2"										5/15/70			
F. THRU 58 3/4"										5/15/70			
F. THRU 59"										5/15/70			
F. THRU 59 1/4"										5/15/70			
F. THRU 59 1/2"										5/15/70			
F. THRU 59 3/4"										5/15/70			
F. THRU 60"										5/15/70			
F. THRU 60 1/4"										5/15/70			
F. THRU 60 1/2"										5/15/70			
F. THRU 60 3/4"										5/15/70			
F. THRU 61"										5/15/70			
F. THRU 61 1/4"										5/15/70			
F. THRU 61 1/2"										5/15/70			
F. THRU 61 3/4"										5/15/70			
F. THRU 62"										5/15/70			
F. THRU 62 1/4"										5/15/70			
F. THRU 62 1/2"										5/15/70			
F. THRU 62 3/4"										5/15/70			
F. THRU 63"										5/15/70			
F. THRU 63 1/4"										5/15/70			
F. THRU 63 1/2"										5/15/70			
F. THRU 63 3/4"										5/15/70			
F. THRU 64"</													



A	REVISION 1 WITH 15 PINS IN THE AND	4/1/74	1/1
B	REVISED WITH ADDITION OF IC PIN NUMBERS	4/1/74	1/1
C	ADDED C01, C04, P04, P05, IC 102 & 103 AND IO CLK OPTIONAL JUMP	2/1/74	1/1
D	REVISED PER ECU 0007	2/1/74	1/1
E	REVISED PER ECU 0019	11/1/74	1/1
F	REVISED PER ECU 0027	12/1/74	1/1
G	REVISED PER ECU 0046	2/1/74	1/1
Y	REVISED/ECU 0490	2/1/74	1/1



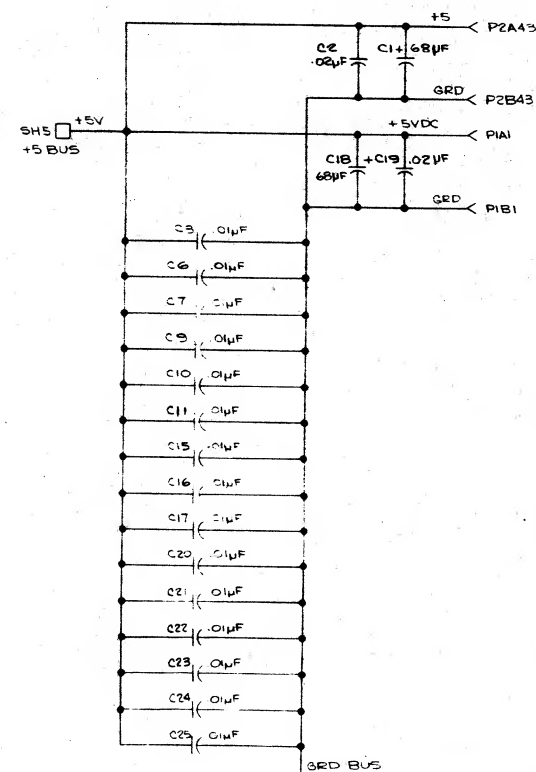
KT 100 2/1/74  
A. H. H. 2/1/74  
A. H. H. 2/1/74

D-112  
CU-2  
SKIP CONTROL  
F 400006 Y  
8









<u>IC COUNT</u>		
IC	GATES	PKGS
7404	2	2/6

ASSY	PARTS TO BE ASSEMBLED	OPTION
G5	SAME AS G1 EXCEPT 7404 QTY 1513 & ADD 7414	BASIC COMPUTER/RU LAMP DRIVER (HOWE-RICHARDSON)

ASSY	PARTS TO BE ASSEMBLED	OPTION	QUANTITY NOT ASSEMBLED	DWG. PART NUMBER
G1	ALL I/O'S BUT 75,76,77,79 PLUS XT-1 640 KHZ (1280000) 250000	BASIC COMPUTER	4	000100 000174
G2	ALL I/O'S PLUS XT-1 640KHZ (1280000) 250000	BASIC COMPUTER PLUS DATA BULK		
G3	ALL I/O'S BUT 75,76,77,79 PLUS XT-1 580 KHZ (1120000) 250000	BASIC COMPUTER	4	000100 000174
G4	ALL I/O'S PLUS XT-1 580 KHZ (1120000) 250000	BASIC COMPUTER PLUS DATA BULK		

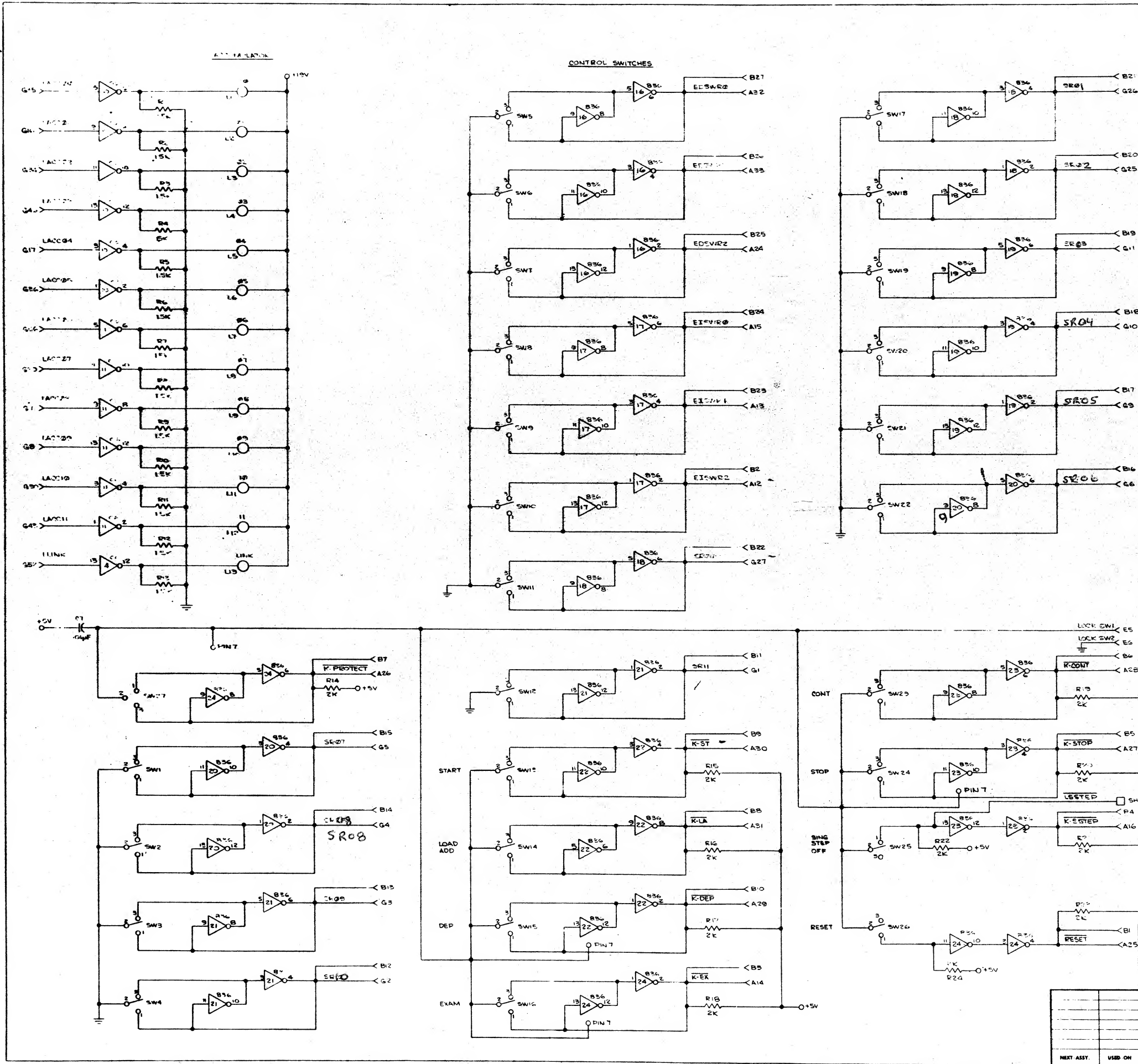
1. \_\_\_\_\_ THIS SYMBOL REFERS TO A  
COLLECTOR PIN
2. \_\_\_\_\_ THIS SYMBOL REFERS TO AN  
INTERSECTION ON A  
DIFFERENT SHT
3. \_\_\_\_\_ THIS SYMBOL REFERS TO AN  
INTERSECTION WITHIN  
THE SAME SHT
4. ALL UNDERLINED NUMBERS DENOTE  
IS LOCATION ON THE PC
5. R55,5B2,5B ARE SELECTED  
DURING COMPUTER INITIAL TESTS  
IN ORDER TO MATCH THE ONE  
SHOT DELAYS (TYPICAL VALUES  
ARE SHOWN IN THE DIAGRAM)  
FOR G4-1 VERSION, R55 IS 24K  
(00279.4) AND R55 IS 27K (00279)  
\*6. ON SHT 7, 7417 REPLACES 7404  
(G5 VERSION ONLY)

A	REVISED PART LIST TABLE 1 OF REVISION TABLE	1/12/70	100%
R	REVISED PART LIST TABLE 2 OF REVISION TABLE	1/12/70	100%
C	REVISED PART LIST TABLE 3 OF REVISION TABLE	1/12/70	100%
F	REVISED PART LIST TABLE 4 OF REVISION TABLE	1/12/70	100%
E	REVISED PART LIST TABLE 5 OF REVISION TABLE	1/12/70	100%
F	REVISED PART LIST TABLE 6 OF REVISION TABLE	1/12/70	100%
G	REVISED PART LIST TABLE 7 OF REVISION TABLE	1/12/70	100%
H	REVISED PART LIST TABLE 8 OF REVISION TABLE	1/12/70	100%
J	REVISED PART LIST TABLE 9 OF REVISION TABLE	1/12/70	100%
K	REVISED PART LIST TABLE 10 OF REVISION TABLE	1/12/70	100%
L	REVISED PART LIST TABLE 11 OF REVISION TABLE	1/12/70	100%
M	REVISED PART LIST TABLE 12 OF REVISION TABLE	1/12/70	100%
N	REVISED PART LIST TABLE 13 OF REVISION TABLE	1/12/70	100%
P	REVISED PART LIST TABLE 14 OF REVISION TABLE	1/12/70	100%
R	REVISED PART LIST TABLE 15 OF REVISION TABLE	1/12/70	100%
S	REVISED PART LIST TABLE 16 OF REVISION TABLE	1/12/70	100%
T	REVISED PART LIST TABLE 17 OF REVISION TABLE	1/12/70	100%
U	REVISED PART LIST TABLE 18 OF REVISION TABLE	1/12/70	100%
V	REVISED PART LIST TABLE 19 OF REVISION TABLE	1/12/70	100%
W	REVISED PART LIST TABLE 20 OF REVISION TABLE	1/12/70	100%
X	REVISED PART LIST TABLE 21 OF REVISION TABLE	1/12/70	100%
Y	REVISED PART LIST TABLE 22 OF REVISION TABLE	1/12/70	100%
Z	REVISED PART LIST TABLE 23 OF REVISION TABLE	1/12/70	100%

D-112  
CU-2

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE

F 400006 Y



REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED
A	REVISED CONTROL SWITCHES - ADDED SW 27 DELETED R14 - R18 REV. IC COUNT	4/16/70	0.1
B	REVISED CONTROL SWITCHES & ACCUMULATOR WITH ADDITION OF PIN #3 AND GATE #5. ADDED 07 REVISED REGISTER NUMBERS TO AGREE WITH FINAL ART WORK.	4/29/70	0.1
C	REVISED GATE NUMBERS	5/12/70	0.1
D	REVISED LS STEP SIGNAL TO LS STEP WITH CHANGE FROM IC 23 PIN 12-13	7/8/70	0.1

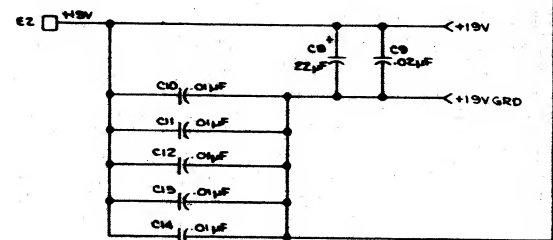
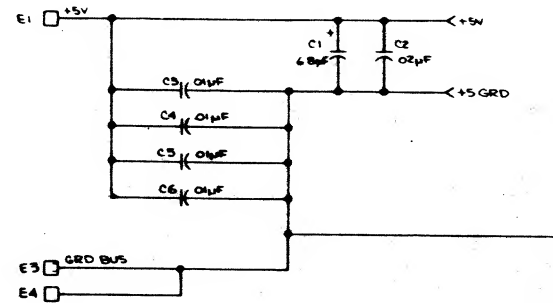
TERMINAL PINS			
	A	B	G
TO OR FROM	CU-2	I/O OUTPUT CONNECTOR	CU-1

IC CO. 1-1		
IC	GATES	PKGS
836	54	9
7416	12	2 1/2

LIST OF MATERIAL			
QTY	DESCRIPTION	UNIT	U. OF M.
1	IC 836	IC	1
1	IC 7416	IC	1
1	IC 837	IC	1
1	IC 838	IC	1
1	IC 839	IC	1
1	IC 840	IC	1
1	IC 841	IC	1
1	IC 842	IC	1
1	IC 843	IC	1
1	IC 844	IC	1
1	IC 845	IC	1
1	IC 846	IC	1
1	IC 847	IC	1
1	IC 848	IC	1
1	IC 849	IC	1
1	IC 850	IC	1
1	IC 851	IC	1
1	IC 852	IC	1
1	IC 853	IC	1
1	IC 854	IC	1
1	IC 855	IC	1
1	IC 856	IC	1
1	IC 857	IC	1
1	IC 858	IC	1
1	IC 859	IC	1
1	IC 860	IC	1
1	IC 861	IC	1
1	IC 862	IC	1
1	IC 863	IC	1
1	IC 864	IC	1
1	IC 865	IC	1
1	IC 866	IC	1
1	IC 867	IC	1
1	IC 868	IC	1
1	IC 869	IC	1
1	IC 870	IC	1
1	IC 871	IC	1
1	IC 872	IC	1
1	IC 873	IC	1
1	IC 874	IC	1
1	IC 875	IC	1
1	IC 876	IC	1
1	IC 877	IC	1
1	IC 878	IC	1
1	IC 879	IC	1
1	IC 880	IC	1
1	IC 881	IC	1
1	IC 882	IC	1
1	IC 883	IC	1
1	IC 884	IC	1
1	IC 885	IC	1
1	IC 886	IC	1
1	IC 887	IC	1
1	IC 888	IC	1
1	IC 889	IC	1
1	IC 890	IC	1
1	IC 891	IC	1
1	IC 892	IC	1
1	IC 893	IC	1
1	IC 894	IC	1
1	IC 895	IC	1
1	IC 896	IC	1
1	IC 897	IC	1
1	IC 898	IC	1
1	IC 899	IC	1
1	IC 900	IC	1
1	IC 901	IC	1
1	IC 902	IC	1
1	IC 903	IC	1
1	IC 904	IC	1
1	IC 905	IC	1
1	IC 906	IC	1
1	IC 907	IC	1
1	IC 908	IC	1
1	IC 909	IC	1
1	IC 910	IC	1
1	IC 911	IC	1
1	IC 912	IC	1
1	IC 913	IC	1
1	IC 914	IC	1
1	IC 915	IC	1
1	IC 916	IC	1
1	IC 917	IC	1
1	IC 918	IC	1
1	IC 919	IC	1
1	IC 920	IC	1
1	IC 921	IC	1
1	IC 922	IC	1
1	IC 923	IC	1
1	IC 924	IC	1
1	IC 925	IC	1
1	IC 926	IC	1
1	IC 927	IC	1
1	IC 928	IC	1
1	IC 929	IC	1
1	IC 930	IC	1
1	IC 931	IC	1
1	IC 932	IC	1
1	IC 933	IC	1
1	IC 934	IC	1
1	IC 935	IC	1
1	IC 936	IC	1
1	IC 937	IC	1
1	IC 938	IC	1
1	IC 939	IC	1
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1	IC 949	IC	1
1	IC 950	IC	1
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1	IC 965	IC	1
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1	IC 968	IC	1
1	IC 969	IC	1
1	IC 970	IC	1
1	IC 971	IC	1
1	IC 972	IC	1
1	IC 973	IC	1
1	IC 974	IC	1
1	IC 975	IC	1
1	IC 976	IC	1
1	IC 977	IC	1
1	IC 978	IC	1
1	IC 979	IC	1
1	IC 980	IC	1
1	IC 981	IC	1
1	IC 982	IC	1
1	IC 983	IC	1
1	IC 984	IC	1
1	IC 985	IC	1
1	IC 986	IC	1
1	IC 987	IC	1
1	IC 988	IC	1
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1	IC 990	IC	1
1	IC 991	IC	1
1	IC 992	IC	1
1	IC 993	IC	1
1	IC 994	IC	1
1	IC 995	IC	1
1	IC 996	IC	1
1	IC 997	IC	1
1	IC 998	IC	1
1	IC 999	IC	1
1	IC 1000	IC	1



REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED
A	REVISED PART LIST TABLE ADDED REVISION TABLE	4/16/70	AKH
B	REVISED REVISION TABLE TO SHOW CHANGES ON SH1. REVISED PART LIST TABLE	4/16/70	AKH
C	REVISED PART LIST TABLE, REVISION TABLE, DELETED C7 AND NOTES 1-3.	4/16/70	AKH
D	REVISED PART LIST TABLE AND REVISION TABLE	5/12/70	AKH
E	REVISED PART LIST TABLE, REVISION TABLE TO REFLECT CHANGES TO SHTS 112	7/24/70	AKH
F	REVISED PER ECN 0105 CHANGED IC'S PART NUMBER FROM SN7406N TO SN7406A	7/27/70	AKH
G	REVISED PER ECN 0115	8/13/70	AKH



PART LIST TABLE											
COMPONENT	SHEET 1	SHEET 2	SHEET 3	G4	SPARE	DCC PART NUMBER	G1	G2	G3		
836	9			9		000336	7	9	7		
7426A	2 1/6	12 3/6		15	26	000106A	11	12	14		
LAMP	U1-LB	U4-LB7		87		008000	64	70	81		
SWITCH RS-26-1	SW-12			20		008201	20	20	20		
SWITCH RS-9-3	SW-13			7		008202	7	7	7		
.01µF			C5-C7 00-C4	10		007001	10	10	10		
.02µF			C2-C9	2		007002	2	2	2		
22µF			C8	1		007144	1	1	1		
6.8µF			C1	1		007139	1	1	1		
15KΩ	R1-13	R25-31 R93-99		87		002766	64	70	81		
2KΩ	R4-24	R92-100		13		002769	13	13	13		

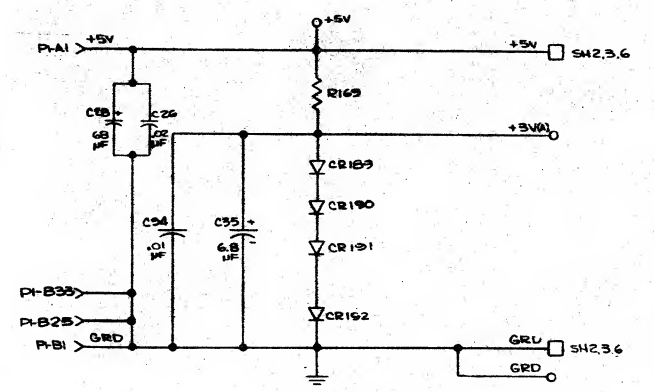
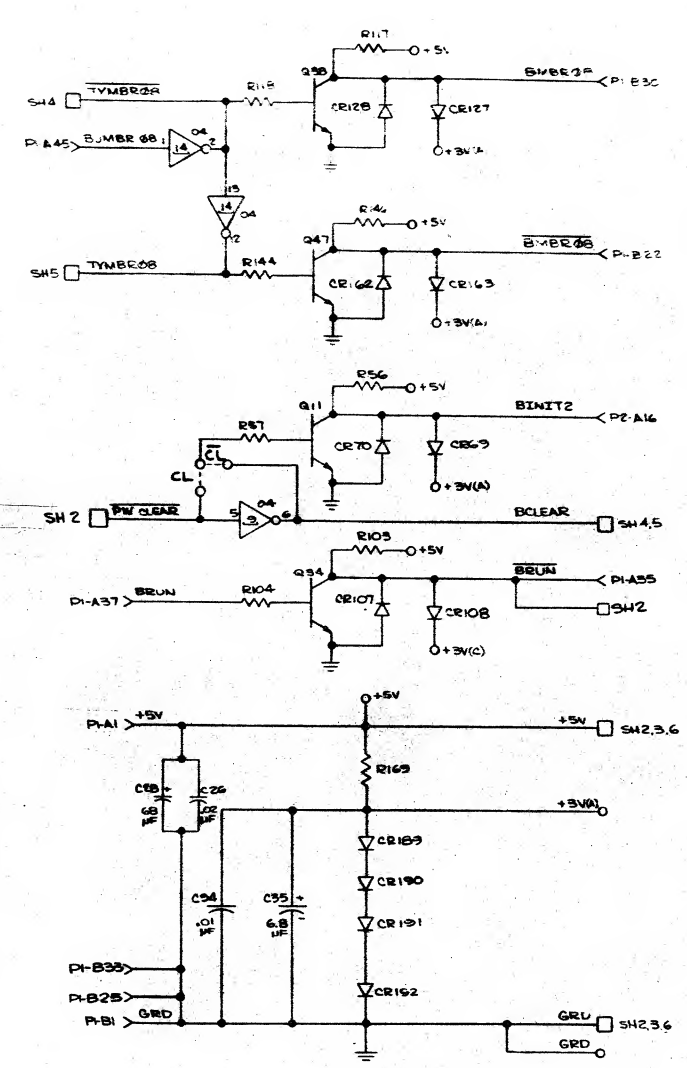
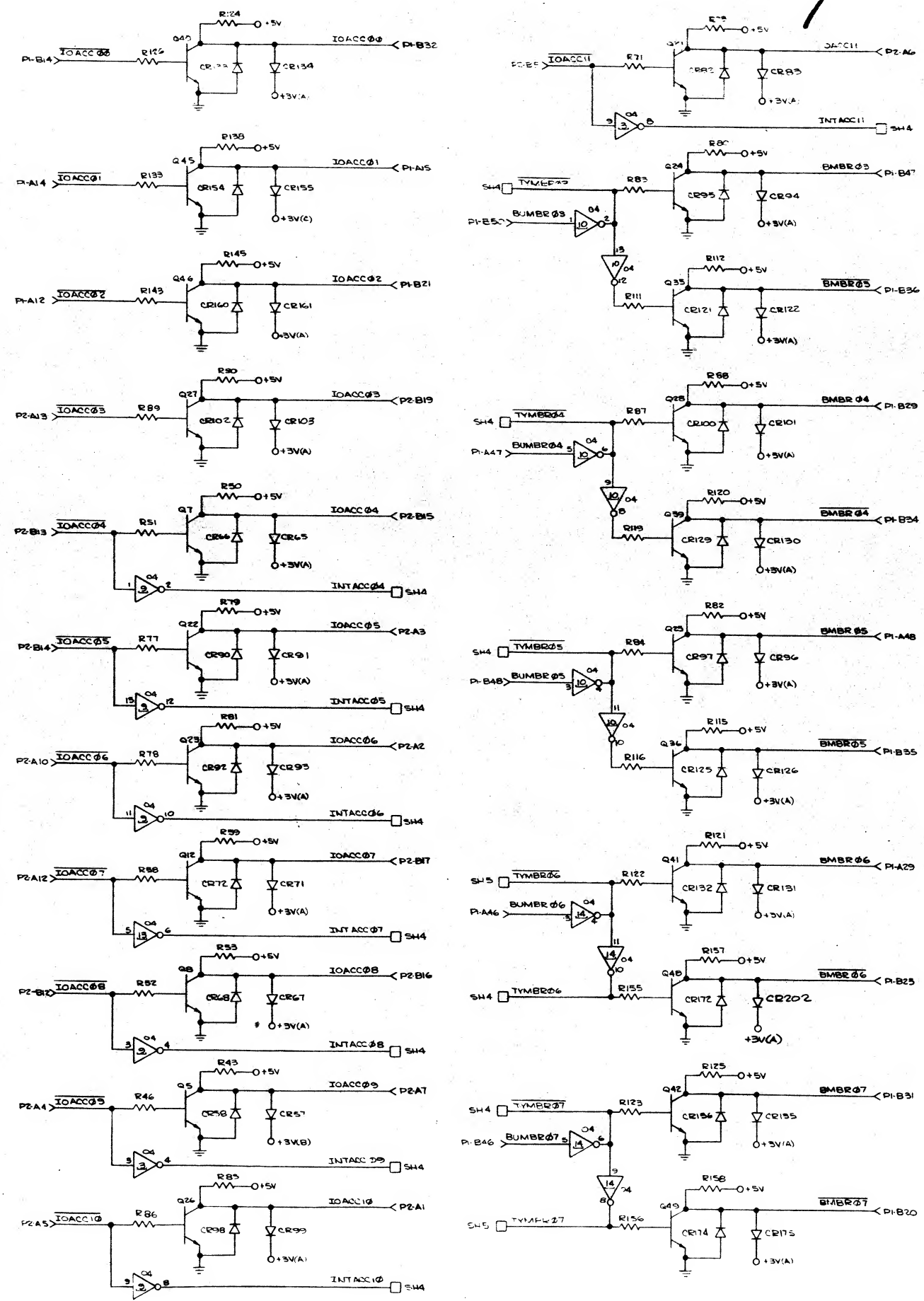
OPTIONS	
G1	BASIC COMPUTER
G2	BASIC COMPUTER PLUS EX-MEMORY
G3	BASIC COMPUTER PLUS EX-ARITH
G4	BASIC COMPUTER PLUS EX-MEMORY & EX-ARITH

REVISION TABLE			
SHEET	1	2	3
REVISION	D	D	G

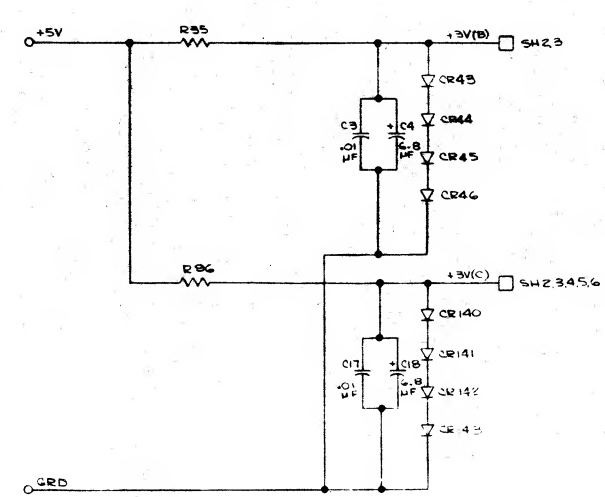
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60	Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100	Q101	Q102	Q103	Q104	Q105	Q106	Q107	Q108	Q109	Q110	Q111	Q112	Q113	Q114	Q115	Q116	Q117	Q118	Q119	Q120	Q121	Q122	Q123	Q124	Q125	Q126	Q127	Q128	Q129	Q130	Q131	Q132	Q133	Q134	Q135	Q136	Q137	Q138	Q139	Q140	Q141	Q142	Q143	Q144	Q145	Q146	Q147	Q148	Q149	Q150	Q151	Q152	Q153	Q154	Q155	Q156	Q157	Q158	Q159	Q160	Q161	Q162	Q163	Q164	Q165	Q166	Q167	Q168	Q169	Q170	Q171	Q172	Q173	Q174	Q175	Q176	Q177	Q178	Q179	Q180	Q181	Q182	Q183	Q184	Q185	Q186	Q187	Q188	Q189	Q190	Q191	Q192	Q193	Q194	Q195	Q196	Q197	Q198	Q199	Q200	Q201	Q202	Q203	Q204	Q205	Q206	Q207	Q208	Q209	Q210	Q211	Q212	Q213	Q214	Q215	Q216	Q217	Q218	Q219	Q220	Q221	Q222	Q223	Q224	Q225	Q226	Q227	Q228	Q229	Q230	Q231	Q232	Q233	Q234	Q235	Q236	Q237	Q238	Q239	Q240	Q241	Q242	Q243	Q244	Q245	Q246	Q247	Q248	Q249	Q250	Q251	Q252	Q253	Q254	Q255	Q256	Q257	Q258	Q259	Q260	Q261	Q262	Q263	Q264	Q265	Q266	Q267	Q268	Q269	Q270	Q271	Q272	Q273	Q274	Q275	Q276	Q277	Q278	Q279	Q280	Q281	Q282	Q283	Q284	Q285	Q286	Q287	Q288	Q289	Q290	Q291	Q292	Q293	Q294	Q295	Q296	Q297	Q298	Q299	Q300	Q301	Q302	Q303	Q304	Q305	Q306	Q307	Q308	Q309	Q310	Q311	Q312	Q313	Q314	Q315	Q316	Q317	Q318	Q319	Q320	Q321	Q322	Q323	Q324	Q325	Q326	Q327	Q328	Q329	Q330	Q331	Q332	Q333	Q334	Q335	Q336	Q337	Q338	Q339	Q340	Q341	Q342	Q343	Q344	Q345	Q346	Q347	Q348	Q349	Q350	Q351	Q352	Q353	Q354	Q355	Q356	Q357	Q358	Q359	Q360	Q361	Q362	Q363	Q364	Q365	Q366	Q367	Q368	Q369	Q370	Q371	Q372	Q373	Q374	Q375	Q376	Q377	Q378	Q379	Q380	Q381	Q382	Q383	Q384	Q385	Q386	Q387	Q388	Q389	Q390	Q391	Q392	Q393	Q394	Q395	Q396	Q397	Q398	Q399	Q400	Q401	Q402	Q403	Q404	Q405	Q406	Q407	Q408	Q409	Q410	Q411	Q412	Q413	Q414	Q415	Q416	Q417	Q418	Q419	Q420	Q421	Q422	Q423	Q424	Q425	Q426	Q427	Q428	Q429	Q430	Q431	Q432	Q433	Q434	Q435	Q436	Q437	Q438	Q439	Q440	Q441	Q442	Q443	Q444	Q445	Q446	Q447	Q448	Q449	Q450	Q451	Q452	Q453	Q454	Q455	Q456	Q457	Q458	Q459	Q460	Q461	Q462	Q463	Q464	Q465	Q466	Q467	Q468	Q469	Q470	Q471	Q472	Q473	Q474	Q475	Q476	Q477	Q478	Q479	Q480	Q481	Q482	Q483	Q484	Q485	Q486	Q487	Q488	Q489	Q490	Q491	Q492	Q493	Q494	Q495	Q496	Q497	Q498	Q499	Q500	Q501	Q502	Q503	Q504	Q505	Q506	Q507	Q508	Q509	Q510	Q511	Q512	Q513	Q514	Q515	Q516	Q517	Q518	Q519	Q520	Q521	Q522	Q523	Q524	Q525	Q526	Q527	Q528	Q529	Q530	Q531	Q532	Q533	Q534	Q535	Q536	Q537	Q538	Q539	Q540	Q541	Q542	Q543	Q544	Q545	Q546	Q547	Q548	Q549	Q550	Q551	Q552	Q553	Q554	Q555	Q556	Q557	Q558	Q559	Q560	Q561	Q562	Q563	Q564	Q565	Q566	Q567	Q568	Q569	Q570	Q571	Q572	Q573	Q574	Q575	Q576	Q577	Q578	Q579	Q580	Q581	Q582	Q583	Q584	Q585	Q586	Q587	Q588	Q589	Q590	Q591	Q592	Q593	Q594	Q595	Q596	Q597	Q598	Q599	Q600	Q601	Q602	Q603	Q604	Q605	Q606	Q607	Q608	Q609	Q610	Q611	Q612	Q613	Q614	Q615	Q616	Q617	Q618	Q619	Q620	Q621	Q622	Q623	Q624	Q625	Q626	Q627	Q628	Q629	Q630	Q631	Q632	Q633	Q634	Q635	Q636	Q637	Q638	Q639	Q640	Q641	Q642	Q643	Q644	Q645	Q646	Q647	Q648	Q649	Q650	Q651	Q652	Q653	Q654	Q655	Q656	Q657	Q658	Q659	Q660	Q661	Q662	Q663	Q664	Q665	Q666	Q667	Q668	Q669	Q670	Q671	Q672	Q673	Q674	Q675	Q676	Q677	Q678	Q679	Q680	Q681	Q682	Q683	Q684	Q685	Q686	Q687	Q688	Q689	Q690	Q691	Q692	Q693	Q694	Q695	Q696	Q697	Q698	Q699	Q700	Q701	Q702	Q703	Q704	Q705	Q706	Q707	Q708	Q709	Q710	Q711	Q712	Q713	Q714	Q715	Q716	Q717	Q718	Q719	Q720	Q721	Q722	Q723	Q724	Q725	Q726	Q727	Q728	Q729	Q730	Q731	Q732	Q733	Q734	Q735	Q736	Q737	Q738	Q739	Q740	Q741	Q742	Q743	Q744	Q745	Q746	Q747	Q748	Q749	Q750	Q751	Q752	Q753	Q754	Q755	Q756	Q757	Q758	Q759	Q760	Q761	Q762	Q763	Q764	Q765	Q766	Q767	Q768	Q769	Q770	Q771	Q772	Q773	Q774	Q775	Q776	Q777	Q778	Q779	Q780	Q781	Q782	Q783	Q784	Q785	Q786	Q787	Q788	Q789	Q790	Q791	Q792	Q793	Q794	Q795	Q796	Q797	Q798	Q799	Q800	Q801	Q802	Q803	Q804	Q805	Q806	Q807	Q808	Q809	Q810	Q811	Q812	Q813	Q814	Q815	Q816	Q817	Q818	Q819	Q820	Q821	Q822	Q823	Q824	Q825	Q826	Q827	Q828	Q829	Q830	Q831	Q832	Q833	Q834	Q835	Q836	Q837	Q838	Q839	Q840	Q841	Q842	Q843	Q844	Q845	Q846	Q847	Q848	Q849	Q850	Q851	Q852	Q853	Q854	Q855	Q856	Q857	Q858	Q859	Q860	Q861	Q862	Q863	Q864	Q865	Q866	Q867	Q868	Q869	Q870	Q871	Q872	Q873	Q874	Q875	Q876	Q877	Q878	Q879	Q880	Q881	Q882	Q883	Q884	Q885	Q886	Q887	Q888	Q889	Q890	Q891	Q892	Q893	Q894	Q895	Q896	Q897	Q898	Q899	Q900	Q901	Q902	Q903	Q904	Q905	Q906	Q907	Q908	Q909	Q910	Q911	Q912	Q913	Q914	Q915	Q916	Q917	Q918	Q919	Q920	Q921	Q922	Q923	Q924	Q925	Q926	Q927	Q928	Q929	Q930	Q931	Q932	Q933	Q934	Q935	Q936	Q937	Q938	Q939	Q940	Q941	Q942	Q943	Q944	Q945	Q946	Q947	Q948	Q949	Q950	Q951	Q952	Q953	Q954	Q955	Q956	Q957	Q958	Q959	Q960	Q961	Q962	Q963	Q964	Q965	Q966	Q967	Q968	Q969	Q970	Q971	Q972	Q973	Q974	Q975	Q976	Q977	Q978	Q979	Q980	Q981	Q982	Q983	Q984	Q985	Q986	Q987	Q988	Q989	Q990	Q991	Q992	Q993	Q994	Q995	Q996	Q997	Q998	Q999	Q1000	Q1001	Q1002	Q1003	Q1004	Q1005	Q1006	Q1007	Q1008	Q1009	Q1010	Q1011	Q1012	Q1013	Q1014	Q1015	Q1016	Q1017	Q1018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A	REVISED WITH ADDITION OF PIN NUMBERS AND NOTE 3	5/1/75	4.1
B	REVISED WITH ADDITION OF PIN NUMBERS AND DELETION OF NOTE 3	6/1/75	4.1
C	REVISED WITH ADDITION OF IC & PIN NUMBERS, RENUMBERED RESISTORS, CAPACITORS, DIODES AND TRANSISTORS DELETED NOTES 1 & 2	7/6/75	4.1
D	GATE 9 PINS WAS TO P2-B23 CLEAR. R57 WAS TO P1-B25 TO CLEAR	9/14/75	4.1
U	REVISED PER ECN 0497528	9/14/75	7.02
P	REVISED/ECN 0673	9/14/75	7.02



IC COUNT		
IC	GATES	PINOS
7404	21	3 36

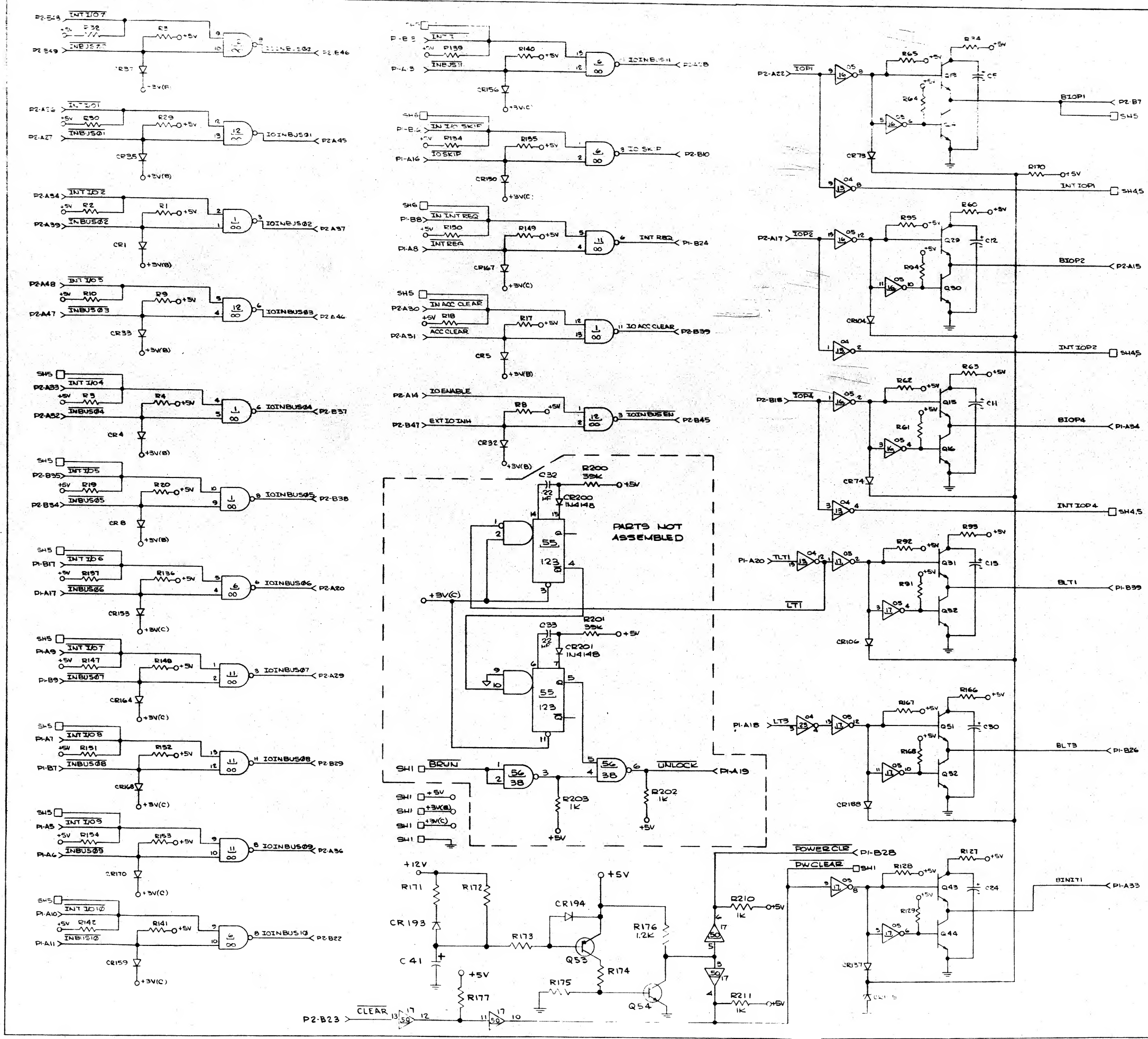


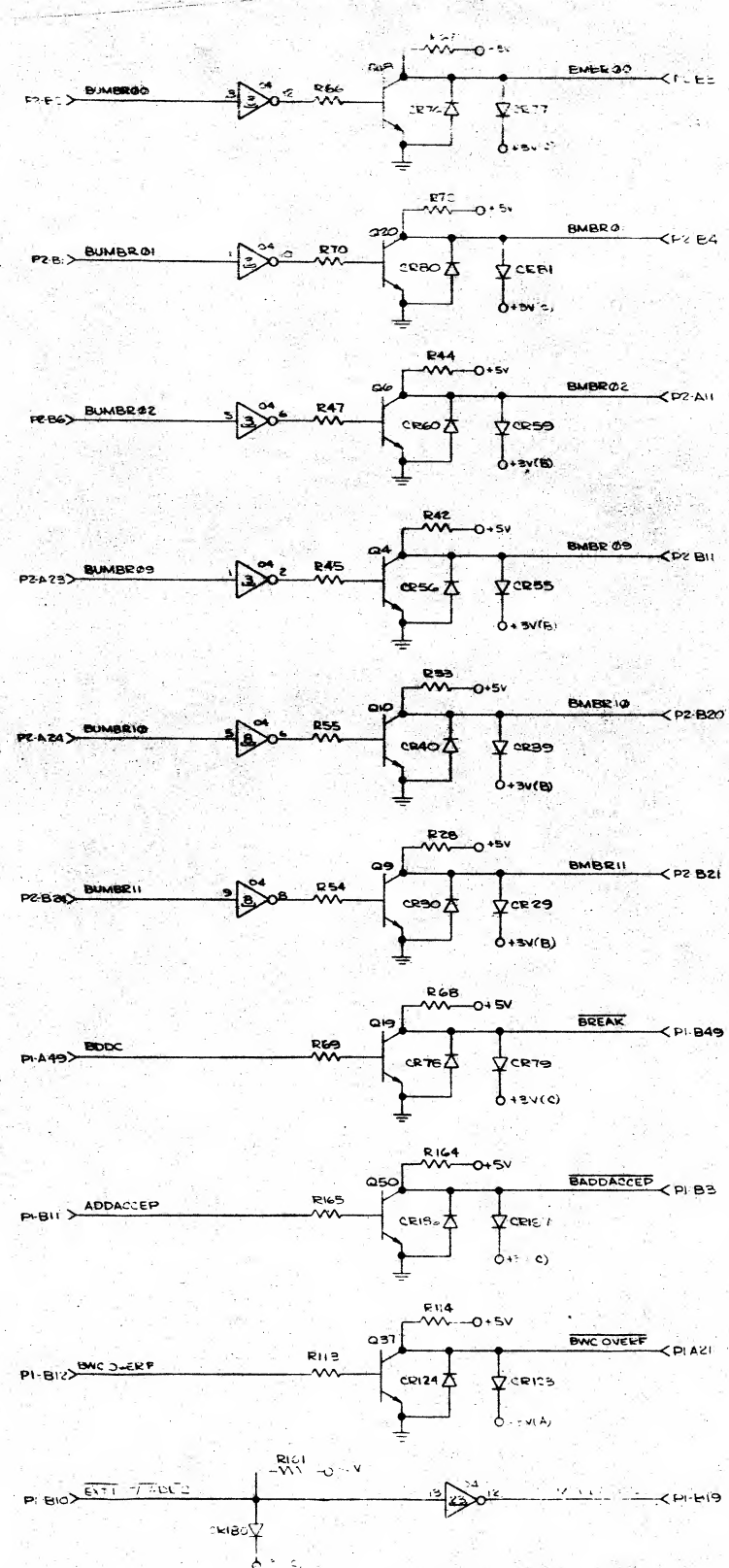
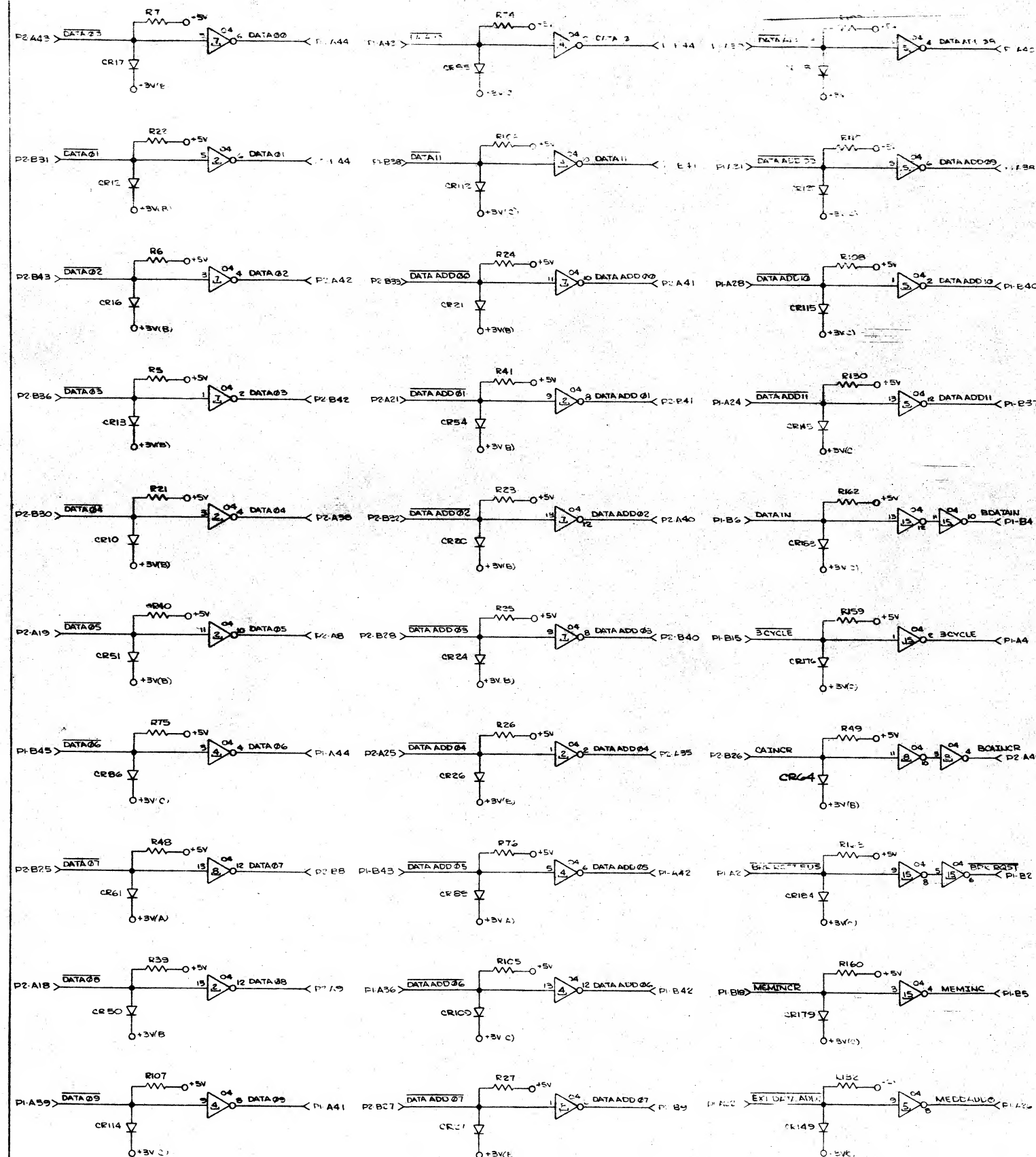
D-112  
I/O INTERFACE POSITIVE  
I/O DRIVERS  
F 400026 P

A	REVISED WITH ADDITION OF PIN NUMBERS AND NOTE 2	5/14/70	0.1
B	REVISED WITH ADDITION OF PIN NUMBERS AND DELETION OF NOTE 2	5/18/70	0.1
C	REVISED WITH ADDITION OF IC & PIN NUMBERS - RENUMBERED RESISTORS, CAPACITORS, DIODES & TRANSISTORS	7/6/70	0.1
D	REVISED PER ECN 0050	6/23/70	1.0
E	REVISED - ADDED IC NO. 50, Q52, Q54, C41, R171-R177, CR193 & CR194	9/14/70	1.0
F	REVISED PER ECN 0301 M.B.	11/19/70	1.0
N	REVISED PER ECN 0497 & 528	6/1/71	F82
P	REVISED/ECN 0673	7/7/71	F83

IC	GATES	PAGES
7400	16	4
7404	4	4/6
7405	12	2
7417	4	4/6
7438	2	3/4
74123	2	1

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 I/O INTERFACE POSITIVE  
 I/O DRIVERS & RECEIVERS  
 F 400026 P





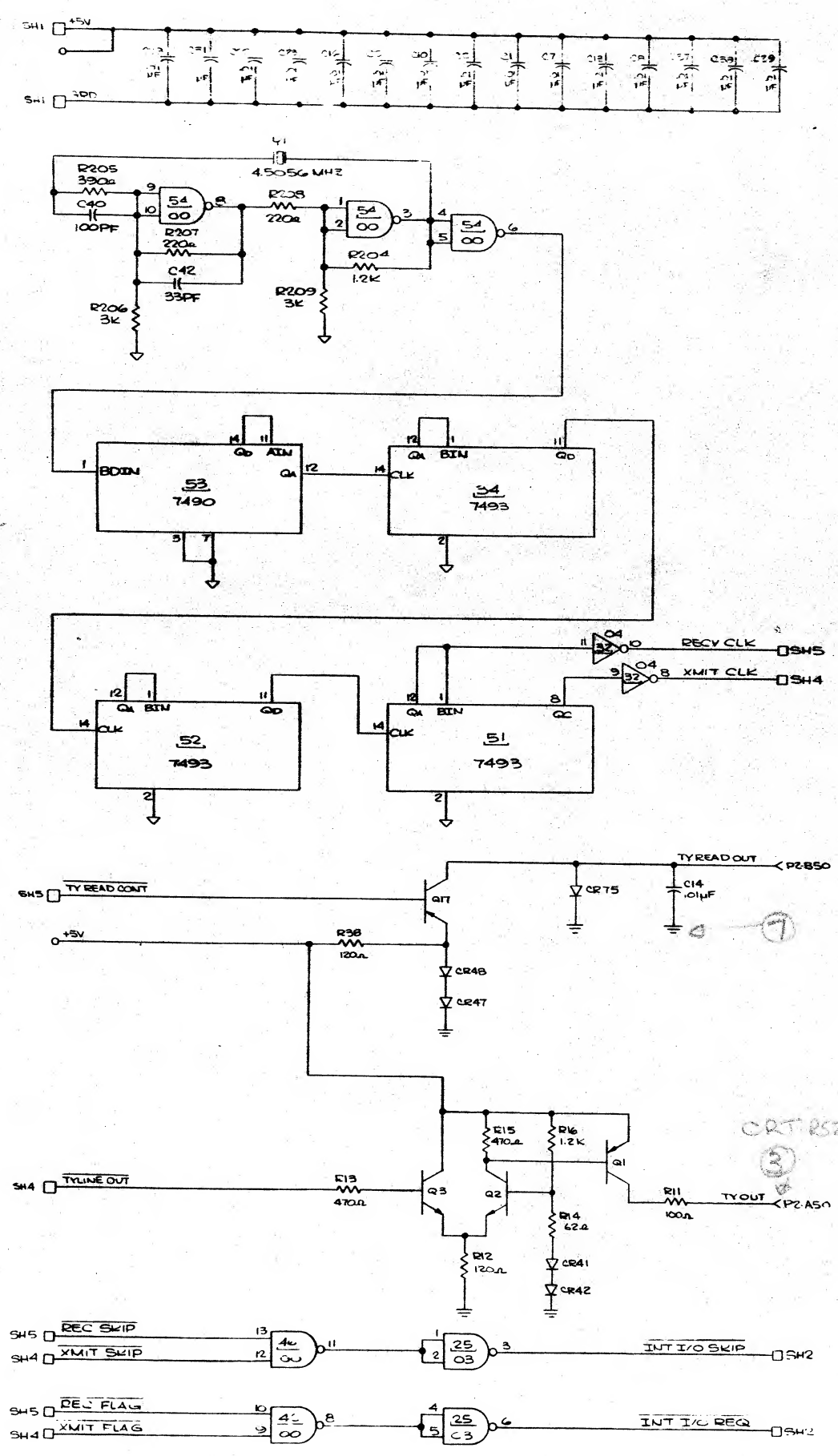
A	REVISIT WITH ADDITION OF PIN NUMBERS AND DELETION OF NAME	5/5/77	
P	REVISIT WITH ADDITION OF PIN NUMBERS AND DELETION OF NAME	5/5/77	
C	REVISIT WITH ADDITION OF PIN NUMBERS AND DELETION OF NAME	7/11/77	
D	REVISIT WITH ADDITION OF PIN NUMBERS AND DELETION OF NAME	8/7/77	
E	REVISIT WITH ADDITION OF PIN NUMBERS AND DELETION OF NAME	6/1/77	
N	REVISIT WITH ADDITION OF PIN NUMBERS AND DELETION OF NAME	5/1/77	
Q	REVISIT WITH ADDITION OF PIN NUMBERS AND DELETION OF NAME	5/1/77	

D-112  
I/O INTERFACE POSITIVE  
DIRECT DATA CHANNEL  
DRIVERS AND RECEIVERS  
F 400026 Q









COMPONENT	SHEET 1	SHEET 2	SHEET 3	SHEET 4	SHEET 5	SHEET 6	TOTAL QTY	STAFF	DOC PART NUMBER
7417		4/6					1	2/6	000117
7418		4			1/4	1/4	3	4	000118
7419				2/4	2/4		1		000119
7420					2/4	2/4	3	14	000120
7421		2	6/6	2/2	5/6	2/6	15	5/6	000121
7422							2		000122
7423				1	1		2		000123
7424				1			1		000124
7425				1/2	1/2		2		000125
7426		3/4					1	3/4	000126
7427				2/2	3/2		12		000127
7428				2			2		000128
220K 1/4W 5%	A	B	C			R207, R208	86		002746
390K 1/4W 5%	D	R175	E			R105	37		002752
500K 1/2W 5%							3		002955
1K 1/4W 5%				R97			22		002762
470K 1/4W 5%				R36		R13, R15	9		002754
1500K 1/4W 5%							7		002766
27K 1/2W 5%							6		002934
74123							1		000223
1.2K 1/4W 5%		R176				R6, R204	3		002764
62K 1/4W 5%						R14	1		002783
2K 1/4W 5%		R173					1		002769
2K 1/4W 5%						R206, R209	2		002773
120K 1/4W 5%						R12, R18	2		002740
100K 1/4W 5%						R11	1		002738
39K		R200, R201					2		002799
.01uF	C3, C17, C34					F	20		007001
.05uF	C4, C18, C35						9		007139
.02uF	C28						1		007153
.01uF	C26						1		007002
330pF					C6		1		007029
100pF						C40	1		007292
33pF						C42	1		007020
.22uF		C32					1		007316
1N4148	G	H	I			CR138, CR139	134		000500
1N4933	CR43, CR44, CR45, CR46, CR47, CR48, CR49	CR133				CR41, CR42, CR43, CR44, CR45, CR46, CR47, CR48, CR49	13		000501
INT50 ZENER	CR105						1		000502
MPS 3646	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55, Q56, Q57, Q58, Q59, Q60, Q61, Q62, Q63, Q64, Q65, Q66, Q67, Q68, Q69, Q70, Q71, Q72, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81, Q82, Q83, Q84, Q85, Q86, Q87, Q88, Q89, Q90, Q91, Q92, Q93, Q94, Q95, Q96, Q97, Q98, Q99, Q100					Q2, Q3	50		001502
MPS 6534						Q1, Q17	3		001503
4.5056 MHz						Y1	1		009262
47K 1/4W 5%	R96						1		002930
10K 1/4W 5%	R171						1		002714
27K 1/4W 5%	R172						1		002795
33uF	C41						1		007150
22uF	C33						1		007317
7490							1		000190
7493							3		000193

NOTES:

- THIS SYMBOL REFERS TO A CONNECTOR PIN
- THIS SYMBOL REFERS TO AN INTERCONNECTION ON A DIFFERENT SHEET
- THIS SYMBOL REFERS TO AN INTERCONNECTION WITHIN THE SAME SHEET
- ALL UNDERLINED NUMBERS DENOTE IC LOCATION ON THE PC

\* ON VER 9111 G1 & G2: VALUE OF R96 IS 510K 1/2W 5%  
ON VER 9112 VALUE OF R96 IS 47K 1/4W 5%

ASSEMBLY	PARTS TO BE ASSEMBLED	OPTION
G1	ALL BUT CR253, IC50, 58, R200-203, CR200, 201	BASIC COMP 11K
G2	SAME AS G1 PLUS BINIT2 INV. POL. IMP	BASIC COMP 11K PLUS BINIT2 SIGNAL POLARITY INVERTED
G3	IC1, 3, 6, 9, 11, 14, 18-54, R1, 4, 8-20, 29-32, 36, 37, 38, 39, 97, 134-137, 140-142, 147-154, 171-177, 204-211, C1, 2, 5-9, 13, 14, 110, 22, 26, 28, 29, 37, 40, Y1, CR2, 42, 47, 49, 75, 130, 139, 143, 150-154, 174, 177, 202, 203, 210, 211	INTERNAL TELETYPE ONLY

A	REVISED PART LIST TABLE TO REFLECT CHANGES TO SHEET 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	1/1/70	1/1
B	REVISED PART LIST TABLE AND REVISION TABLE TO REFLECT CHANGES TO SHEETS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	5/18/70	1/1
C	REVISED REVISION TABLE TO REFLECT CHANGES TO SHEETS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	5/18/70	1/1
D	REVISED WITH ADDITION OF IC PIN NUMBERS, RENUMBERED RESISTORS, CAPACITORS, TRANSISTORS & DIODES DELETED NOTES 1 & 2 REVISED REVISION TABLE & PART LIST TABLE	7/18/70	1/1
E	REVISED PART LIST TABLE - ADDED 1 CAPACITOR - REVISED REVISION TABLE TO REFLECT CHANGES TO SHEET 5	8/1/70	1/1
F	ADDED G VERSION OPTION TABLE	9/1/70	F13
G	REVISED SUTS 546 PER ECN 00036	11/1/70	1/1
H	REVISED PER ECN 0068	5/18/70	1/1
J	REVISED PER ECN 0090	6/1/70	1/1
K	REVISED PER ECN 0151 C33 WAS CS REVISED PART LIST TABLE REVISED REVISION TABLE	9/1/70	1/1
L	REVISED PER ECN 0277	12/1/70	1/1
M	REVISED PER ECN 0301 MB	12/1/70	1/1
N	REVISED PER ECN 0497 & 528 MB	1/1/71	1/1
P	REVISED / ECN 0673	7/1/71	1/1
Q	REVISED / ECN 0734	8/1/71	F13

A	R45, 50, 53, 54, 59, 75, 79, 82, 85, 88, 90, 103, 112, 115, 117, 120, 121, 124, 125, 138, 145, 146, 157, 158
B	R1, 4, 8, 9, 17, 20, 29, 31, 135, 136, 140, 141, 148, 149, 152, 153
C	R5, 6, 7, 21-28, 33, 38, 40-42, 44, 48, 49, 67, 68, 72, 74-76, 105-110, 114, 130-132, 159, 160-164
D	R46, 51, 52, 57, 58, 71, 77, 78, 83, 84, 86, 97, 89, 104, 111, 116, 118, 119, 122, 123, 126, 133, 143, 144, 155, 156
E	R45, 47, 54, 55, 66, 69, 70, 113, 165
F	C1, 2, 7-10, 13, 14, 16, 22, 23, 27, 29, 31, 37-39
G	CR57, 58, 65-72, 82, 85, 90-105, 107, 108, 121, 122, 125-136, 154, 155, 160-163, 172, 174, 175, 200-208
H	CR1, 4, 5, 8, 32, 33, 73, 74, 104, 106, 137, 150, 35, 153, 156, 159, 164, 167, 168, 170, 180, 194, 217
I	CR10, 12, 18, 16, 17, 20, 21, 24, 26, 27, 29, 30, 39, 40, 50, 51, 54-56, 59-61, 64, 76-81, 85, 86, 88, 109, 112, 114, 115, 118, 120, 123, 124, 145, 146, 149, 176, 180, 183, 184, 186, 187, 179
J	R2, 3, 10, 18, 19, 30, 32, 134, 137, 139, 142, 147, 150, 151, 154, 174, 177, 202, 203, 210, 211

REVISION TABLE

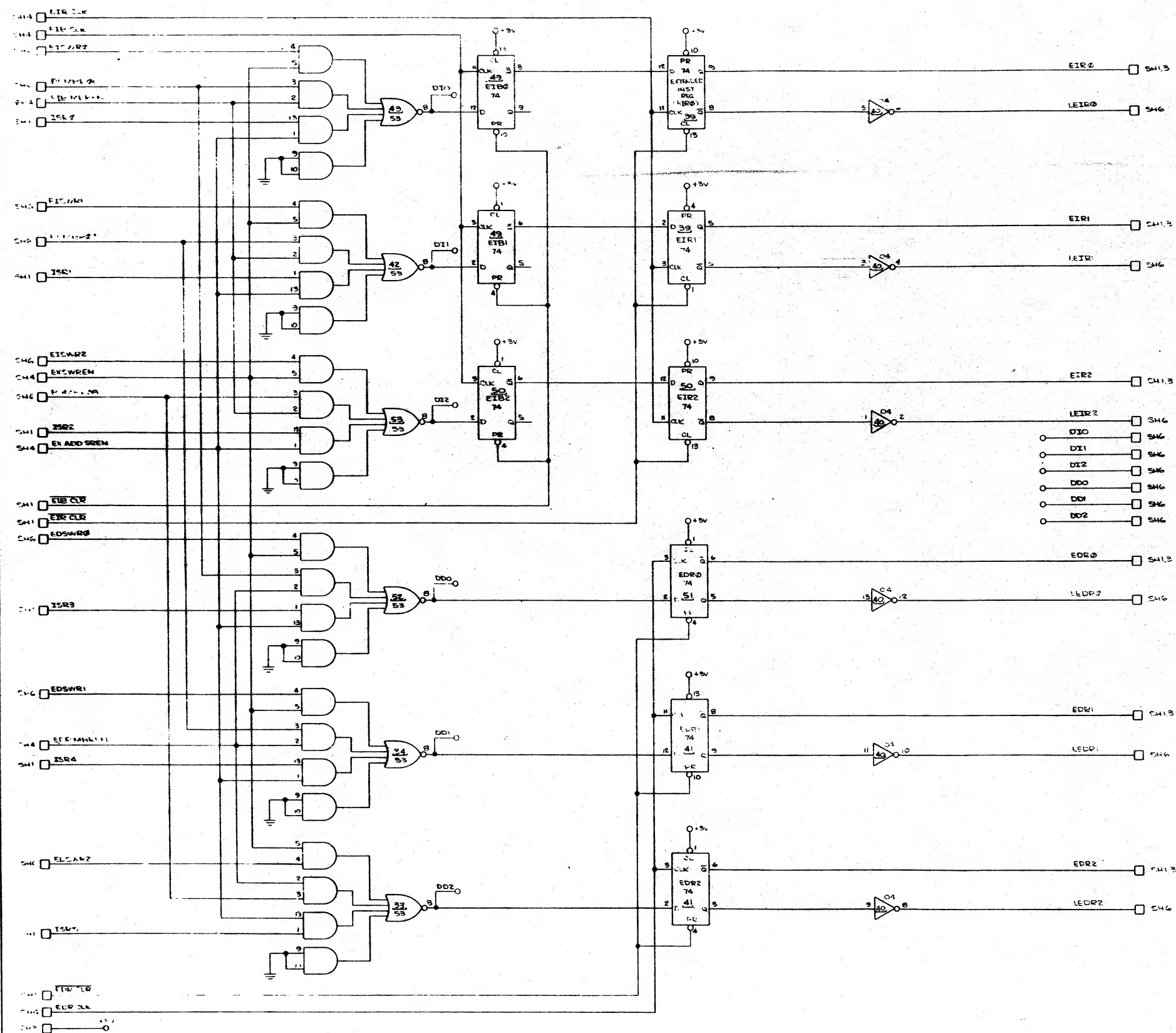
SHEET	1	2	3	4	5	6
REVISION	P	P	P	P	P	Q

D-112  
I/O INTERFACE POSITIVE  
MISC. AND TTY CLK.  
F 400026 Q





REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED
A	REVISED WITH ADDITION OF IC PIN # 3	6/24/70	11



IC COUNT		
IC	GATES	PKGS
7404	6	1
7453	6	6
7474	2	4

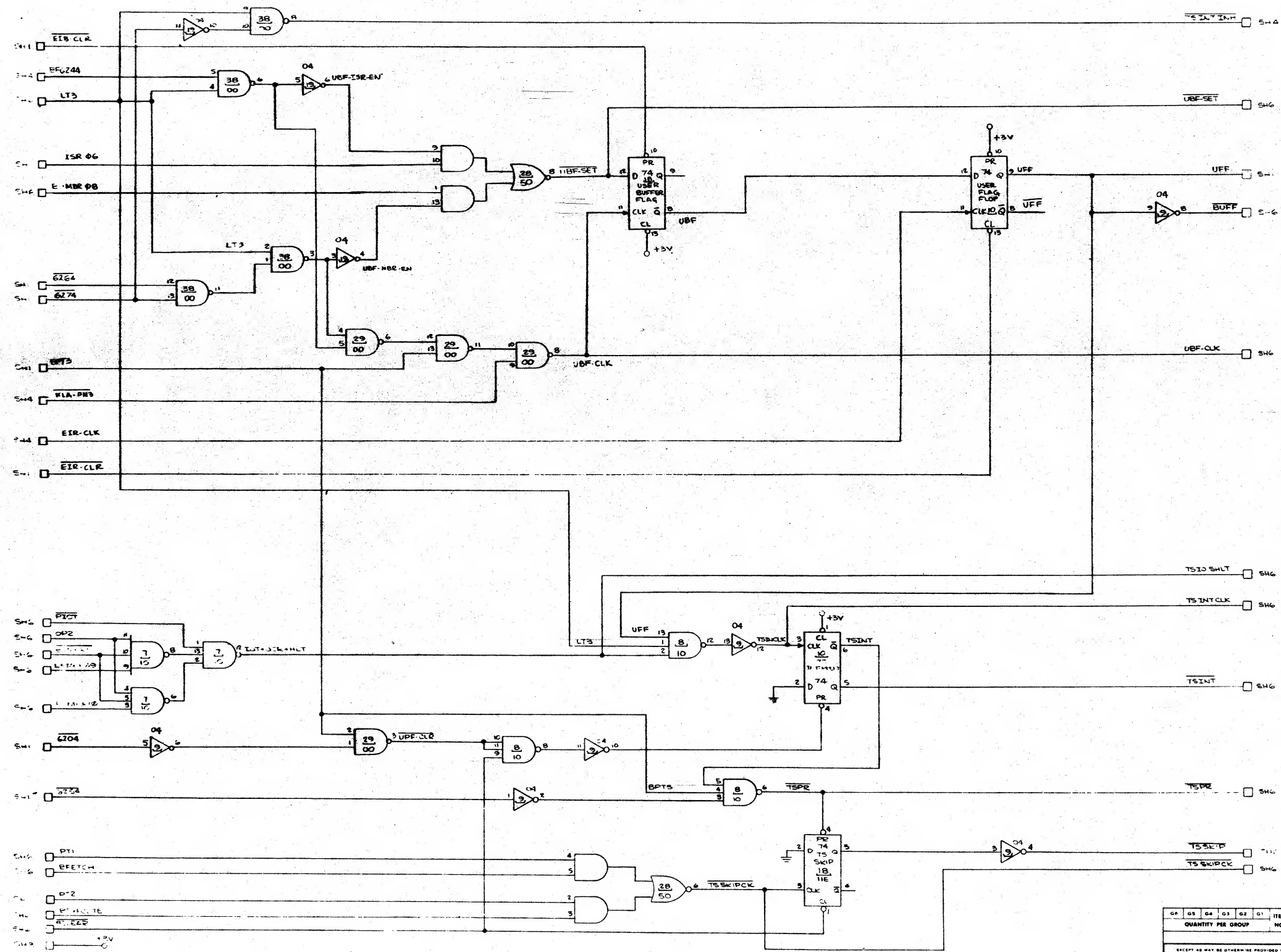
Q6	Q5	Q4	Q3	Q2	Q1	ITEM	SIZE	PART NO.	DESCRIPTION	M	U
QUANTITY PER GROUP										NO.	DRAWING NO.
LIST OF MATERIAL											
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DIGITAL COMPUTER CONTROLS, INC. FAIRFIELD, NEW JERSEY 07006											
D-112 MEMORY EXTENSION CONTROL INST BUFFER, INSTRUCTION & DATA REGISTERS											
F 400036A											
UNLESS OTHERWISE SPECIFIED											
DIMENSIONS ARE IN INCHES AND INCLUDE CRITICAL APPLIED OR PLATED FINISHES											
TOLERANCES											
FRACTIONS DECIMALS ANGLES											
HOLE DIAMETER TOLERANCE											
D THRU .500 .501 THRU .509 .510 & LARGER											
THREADS EXT CL 2A INT CL 2B											
APPROVAL											
DATE											
MATERIAL											
FINISH											
NEXT ASSY. USED ON											





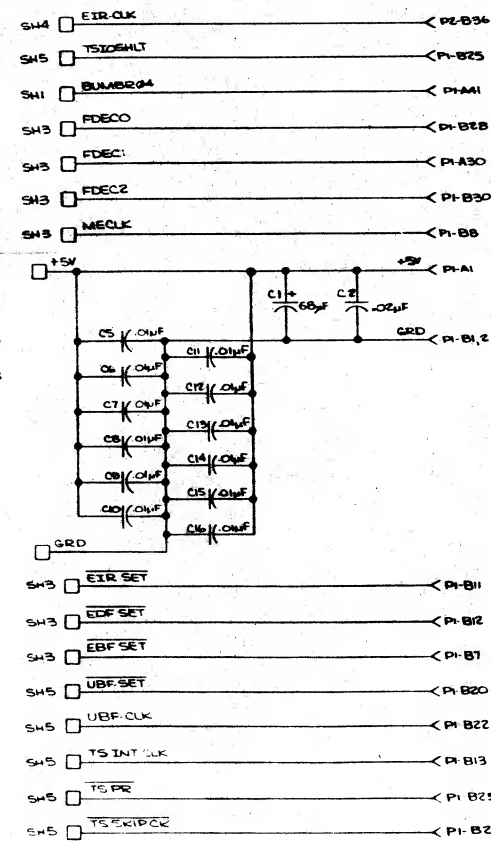


REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVED
A	REVISED WITH ADDITION OF IC PIN N'S	11/28/70	g/h



IC COUNT			
IC	GATES	PKGS	SPARE
7400	8	2	
7404	8	2	96
7410	4	1	
7450	4	2	

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60	Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100	Q101	Q102	Q103	Q104	Q105	Q106	Q107	Q108	Q109	Q110	Q111	Q112	Q113	Q114	Q115	Q116	Q117	Q118	Q119	Q120	Q121	Q122	Q123	Q124	Q125	Q126	Q127	Q128	Q129	Q130	Q131	Q132	Q133	Q134	Q135	Q136	Q137	Q138	Q139	Q140	Q141	Q142	Q143	Q144	Q145	Q146	Q147	Q148	Q149	Q150	Q151	Q152	Q153	Q154	Q155	Q156	Q157	Q158	Q159	Q160	Q161	Q162	Q163	Q164	Q165	Q166	Q167	Q168	Q169	Q170	Q171	Q172	Q173	Q174	Q175	Q176	Q177	Q178	Q179	Q180	Q181	Q182	Q183	Q184	Q185	Q186	Q187	Q188	Q189	Q190	Q191	Q192	Q193	Q194	Q195	Q196	Q197	Q198	Q199	Q200	Q201	Q202	Q203	Q204	Q205	Q206	Q207	Q208	Q209	Q210	Q211	Q212	Q213	Q214	Q215	Q216	Q217	Q218	Q219	Q220	Q221	Q222	Q223	Q224	Q225	Q226	Q227	Q228	Q229	Q230	Q231	Q232	Q233	Q234	Q235	Q236	Q237	Q238	Q239	Q240	Q241	Q242	Q243	Q244	Q245	Q246	Q247	Q248	Q249	Q250	Q251	Q252	Q253	Q254	Q255	Q256	Q257	Q258	Q259	Q260	Q261	Q262	Q263	Q264	Q265	Q266	Q267	Q268	Q269	Q270	Q271	Q272	Q273	Q274	Q275	Q276	Q277	Q278	Q279	Q280	Q281	Q282	Q283	Q284	Q285	Q286	Q287	Q288	Q289	Q290	Q291	Q292	Q293	Q294	Q295	Q296	Q297	Q298	Q299	Q300	Q301	Q302	Q303	Q304	Q305	Q306	Q307	Q308	Q309	Q310	Q311	Q312	Q313	Q314	Q315	Q316	Q317	Q318	Q319	Q320	Q321	Q322	Q323	Q324	Q325	Q326	Q327	Q328	Q329	Q330	Q331	Q332	Q333	Q334	Q335	Q336	Q337	Q338	Q339	Q340	Q341	Q342	Q343	Q344	Q345	Q346	Q347	Q348	Q349	Q350	Q351	Q352	Q353	Q354	Q355	Q356	Q357	Q358	Q359	Q360	Q361	Q362	Q363	Q364	Q365	Q366	Q367	Q368	Q369	Q370	Q371	Q372	Q373	Q374	Q375	Q376	Q377	Q378	Q379	Q380	Q381	Q382	Q383	Q384	Q385	Q386	Q387	Q388	Q389	Q390	Q391	Q392	Q393	Q394	Q395	Q396	Q397	Q398	Q399	Q400	Q401	Q402	Q403	Q404	Q405	Q406	Q407	Q408	Q409	Q410	Q411	Q412	Q413	Q414	Q415	Q416	Q417	Q418	Q419	Q420	Q421	Q422	Q423	Q424	Q425	Q426	Q427	Q428	Q429	Q430	Q431	Q432	Q433	Q434	Q435	Q436	Q437	Q438	Q439	Q440	Q441	Q442	Q443	Q444	Q445	Q446	Q447	Q448	Q449	Q450	Q451	Q452	Q453	Q454	Q455	Q456	Q457	Q458	Q459	Q460	Q461	Q462	Q463	Q464	Q465	Q466	Q467	Q468	Q469	Q470	Q471	Q472	Q473	Q474	Q475	Q476	Q477	Q478	Q479	Q480	Q481	Q482	Q483	Q484	Q485	Q486	Q487	Q488	Q489	Q490	Q491	Q492	Q493	Q494	Q495	Q496	Q497	Q498	Q499	Q500	Q501	Q502	Q503	Q504	Q505	Q506	Q507	Q508	Q509	Q510	Q511	Q512	Q513	Q514	Q515	Q516	Q517	Q518	Q519	Q520	Q521	Q522	Q523	Q524	Q525	Q526	Q527	Q528	Q529	Q530	Q531	Q532	Q533	Q534	Q535	Q536	Q537	Q538	Q539	Q540	Q541	Q542	Q543	Q544	Q545	Q546	Q547	Q548	Q549	Q550	Q551	Q552	Q553	Q554	Q555	Q556	Q557	Q558	Q559	Q560	Q561	Q562	Q563	Q564	Q565	Q566	Q567	Q568	Q569	Q570	Q571	Q572	Q573	Q574	Q575	Q576	Q577	Q578	Q579	Q580	Q581	Q582	Q583	Q584	Q585	Q586	Q587	Q588	Q589	Q590	Q591	Q592	Q593	Q594	Q595	Q596	Q597	Q598	Q599	Q600	Q601	Q602	Q603	Q604	Q605	Q606	Q607	Q608	Q609	Q610	Q611	Q612	Q613	Q614	Q615	Q616	Q617	Q618	Q619	Q620	Q621	Q622	Q623	Q624	Q625	Q626	Q627	Q628	Q629	Q630	Q631	Q632	Q633	Q634	Q635	Q636	Q637	Q638	Q639	Q640	Q641	Q642	Q643	Q644	Q645	Q646	Q647	Q648	Q649	Q650	Q651	Q652	Q653	Q654	Q655	Q656	Q657	Q658	Q659	Q660	Q661	Q662	Q663	Q664	Q665	Q666	Q667	Q668	Q669	Q670	Q671	Q672	Q673	Q674	Q675	Q676	Q677	Q678	Q679	Q680	Q681	Q682	Q683	Q684	Q685	Q686	Q687	Q688	Q689	Q690	Q691	Q692	Q693	Q694	Q695	Q696	Q697	Q698	Q699	Q700	Q701	Q702	Q703	Q704	Q705	Q706	Q707	Q708	Q709	Q710	Q711	Q712	Q713	Q714	Q715	Q716	Q717	Q718	Q719	Q720	Q721	Q722	Q723	Q724	Q725	Q726	Q727	Q728	Q729	Q730	Q731	Q732	Q733	Q734	Q735	Q736	Q737	Q738	Q739	Q740	Q741	Q742	Q743	Q744	Q745	Q746	Q747	Q748	Q749	Q750	Q751	Q752	Q753	Q754	Q755	Q756	Q757	Q758	Q759	Q760	Q761	Q762	Q763	Q764	Q765	Q766	Q767	Q768	Q769	Q770	Q771	Q772	Q773	Q774	Q775	Q776	Q777	Q778	Q779	Q780	Q781	Q782	Q783	Q784	Q785	Q786	Q787	Q788	Q789	Q790	Q791	Q792	Q793	Q794	Q795	Q796	Q797	Q798	Q799	Q800	Q801	Q802	Q803	Q804	Q805	Q806	Q807	Q808	Q809	Q810	Q811	Q812	Q813	Q814	Q815	Q816	Q817	Q818	Q819	Q820	Q821	Q822	Q823	Q824	Q825	Q826	Q827	Q828	Q829	Q830	Q831	Q832	Q833	Q834	Q835	Q836	Q837	Q838	Q839	Q840	Q841	Q842	Q843	Q844	Q845	Q846	Q847	Q848	Q849	Q850	Q851	Q852	Q853	Q854	Q855	Q856	Q857	Q858	Q859	Q860	Q861	Q862	Q863	Q864	Q865	Q866	Q867	Q868	Q869	Q870	Q871	Q872	Q873	Q874	Q875	Q876	Q877	Q878	Q879	Q880	Q881	Q882	Q883	Q884	Q885	Q886	Q887	Q888	Q889	Q890	Q891	Q892	Q893	Q894	Q895	Q896	Q897	Q898	Q899	Q900	Q901	Q902	Q903	Q904	Q905	Q906	Q907	Q908	Q909	Q910	Q911	Q912	Q913	Q914	Q915	Q916	Q917	Q918	Q919	Q920	Q921	Q922	Q923	Q924	Q925	Q926	Q927	Q928	Q929	Q930	Q931	Q932	Q933	Q934	Q935	Q936	Q937	Q938	Q939	Q940	Q941	Q942	Q943	Q944	Q945	Q946	Q947	Q948	Q949	Q950	Q951	Q952	Q953	Q954	Q955	Q956	Q957	Q958	Q959	Q960	Q961	Q962	Q963	Q964	Q965	Q966	Q967	Q968	Q969	Q970	Q971	Q972	Q973	Q974	Q975	Q976	Q977	Q978	Q979	Q980	Q981	Q982	Q983	Q984	Q985	Q986	Q987	Q988	Q989	Q990	Q991	Q992	Q993	Q994	Q995	Q996	Q997	Q998	Q999	Q1000	Q1001	Q1002	Q1003	Q1004	Q1005	Q1006	Q1007	Q1008	Q1009	Q1010	Q1011	Q1012	Q1013	Q1014	Q1015	Q1016	Q1017	Q1018	Q1019	Q1020	Q1021	Q1022	Q1023	Q1024	Q1025	Q1026	Q1027	Q1028	Q1029	Q1030	Q1031	Q1032	Q1033	Q1034	Q1035	Q1036	Q1037	Q1038	Q1039	Q1040	Q1041	Q1042	Q1043	Q1044	Q1045	Q1046	Q1047	Q1048	Q1049	Q1050	Q1051	Q1052	Q1053	Q1054	Q1055	Q1056	Q1057	Q1058	Q1059	Q1060	Q1061	Q1062	Q1063	Q1064	Q1065	Q1066	Q1067	Q1068	Q1069	Q1070	Q1071	Q1072	Q1073	Q1074	Q1075	Q1076	Q1077	Q1078	Q1079	Q1080	Q1081	Q1082	Q1083	Q1084	Q1085	Q1086	Q1087	Q1088	Q1089	Q1090	Q1091	Q1092	Q1093	Q1094	Q1095	Q1096	Q1097	Q1098	Q1099	Q1100	Q1101	Q1102	Q1103	Q1104	Q1105	Q1106	Q1107	Q1108	Q1109	Q1110	Q1111	Q1112	Q1113	Q1114	Q1115	Q1116	Q1117	Q1118	Q1119	Q1120	Q1121	Q1122	Q1123	Q1124	Q1125	Q1126	Q1127	Q1128	Q1129	Q1130	Q1131	Q1132	Q1133	Q1134	Q1135	Q1136	Q1137	Q1138	Q1139	Q1140	Q1141	Q1142	Q1143	Q1144	Q1145	Q1146	Q1147	Q1148	Q1149	Q1150	Q1151	Q1152	Q1153	Q1154	Q1155	Q1156	Q1157	Q1158	Q1159	Q1160	Q1161	Q1162	Q1163	Q1164	Q1165	Q1166	Q1167	Q1168	Q1169	Q1170	Q1171	Q1172	Q1173	Q1174	Q1175	Q1176	Q1177	Q1178	Q1179	Q1180	Q1181	Q1182	Q1183	Q1184	Q1185	Q1186	Q1187	Q1188	Q1189	Q1190	Q1191	Q1192	Q1193	Q1194	Q1195	Q1196	Q1197	Q1198	Q1199	Q1200	Q1201	Q1202	Q1203	Q1204	Q1205	Q1206	Q1207	Q1208	Q1209
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REVISIONS				
SYN	ZONE	DESCRIPTION	DATE	APPROVE
A		REVISED PART LIST TABLE, ADDED REVISION TABLE, I.C. PIN NUMBERS DELETED NOTE 1, 2, 3, 1B, 9 REVISED NOTES 4, 5 & 12, 3. ADDED NOTE 4 & 5	6/26/70	174
B		REVISED PER ECN'S 0003 & 0004	9/29/70	174
C		REVISED PER ECN 0007	5/26/71	174
D		REVISED PER ECN 0139	10/24/71	174
E		REVISED PER ECN 0207	11/25/71	174
F		REVISED PER ECN 0421	2/4/72	174

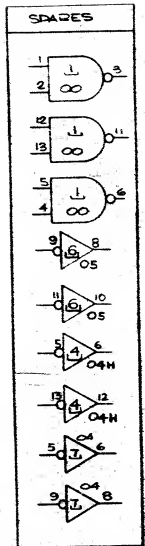
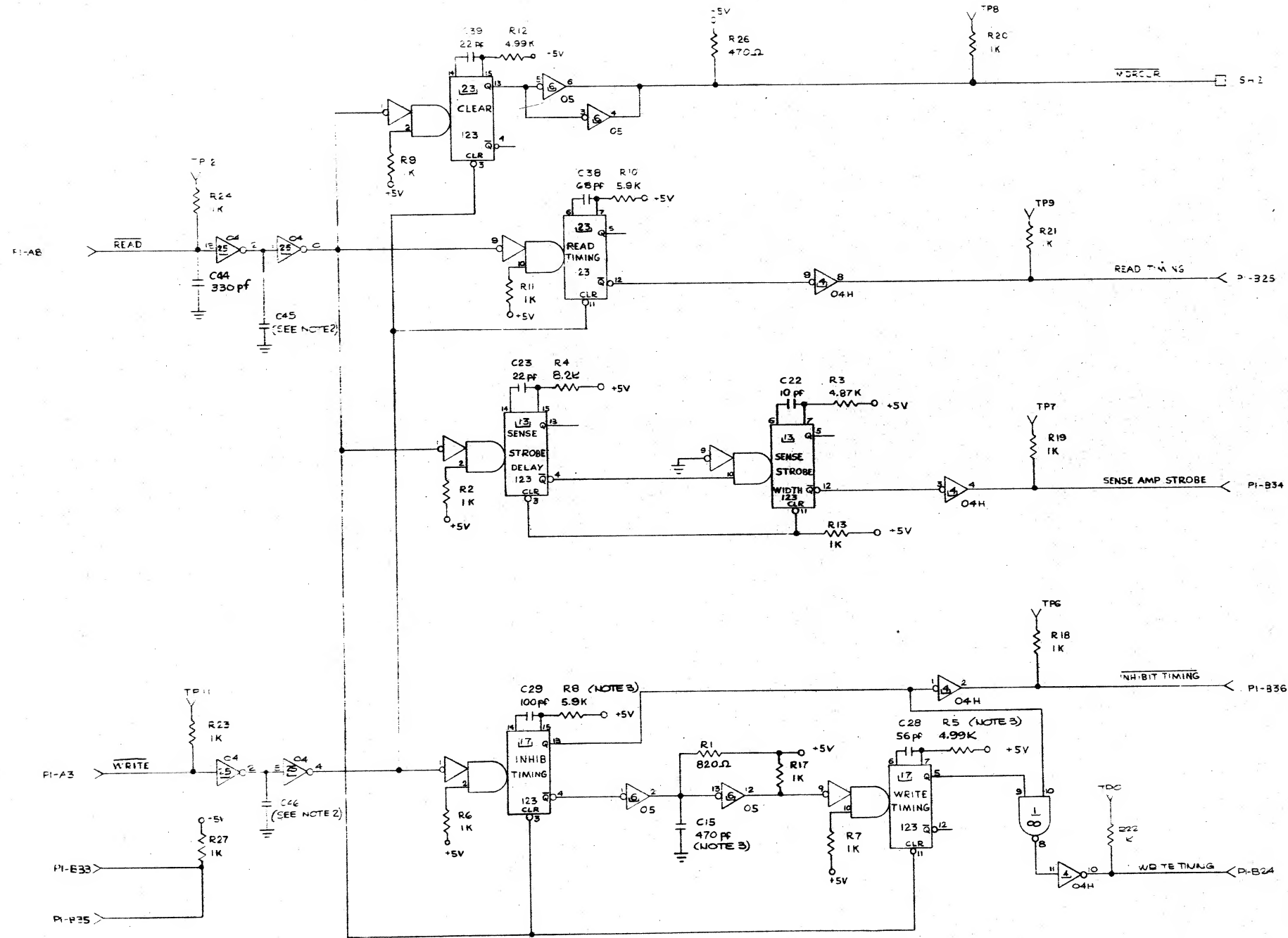
- REVISION TABLE
- |          |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|
| SHEET    | 1 | 2 | 3 | 4 | 5 | 6 |
| REVISION | C | A | E | D | A | F |

<u>IC COUNT</u>		
IC	GATES	PAGES
7404	13	256
7403	1	1/4
7400	1	1/4

[illegible]



A	QUANTIFIED EQUUS 27 E 100	EQ	5/77	1/1
B	REVISED PER ECN 3101	GC	11/9/77	1/1
E	REVISED PER DWD 489	DET	3/11/78	1/1
F	REVISED / ECN 0627	DET	3/11/78	1/1

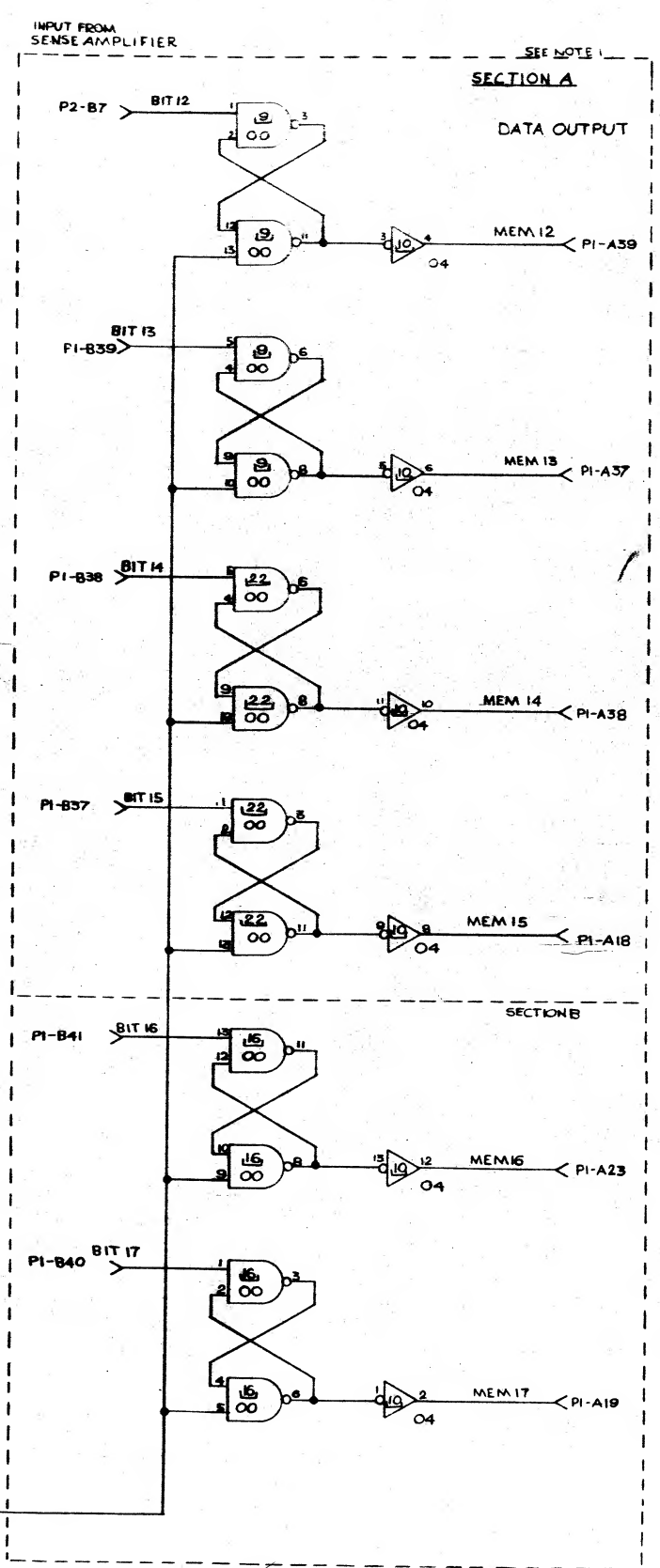
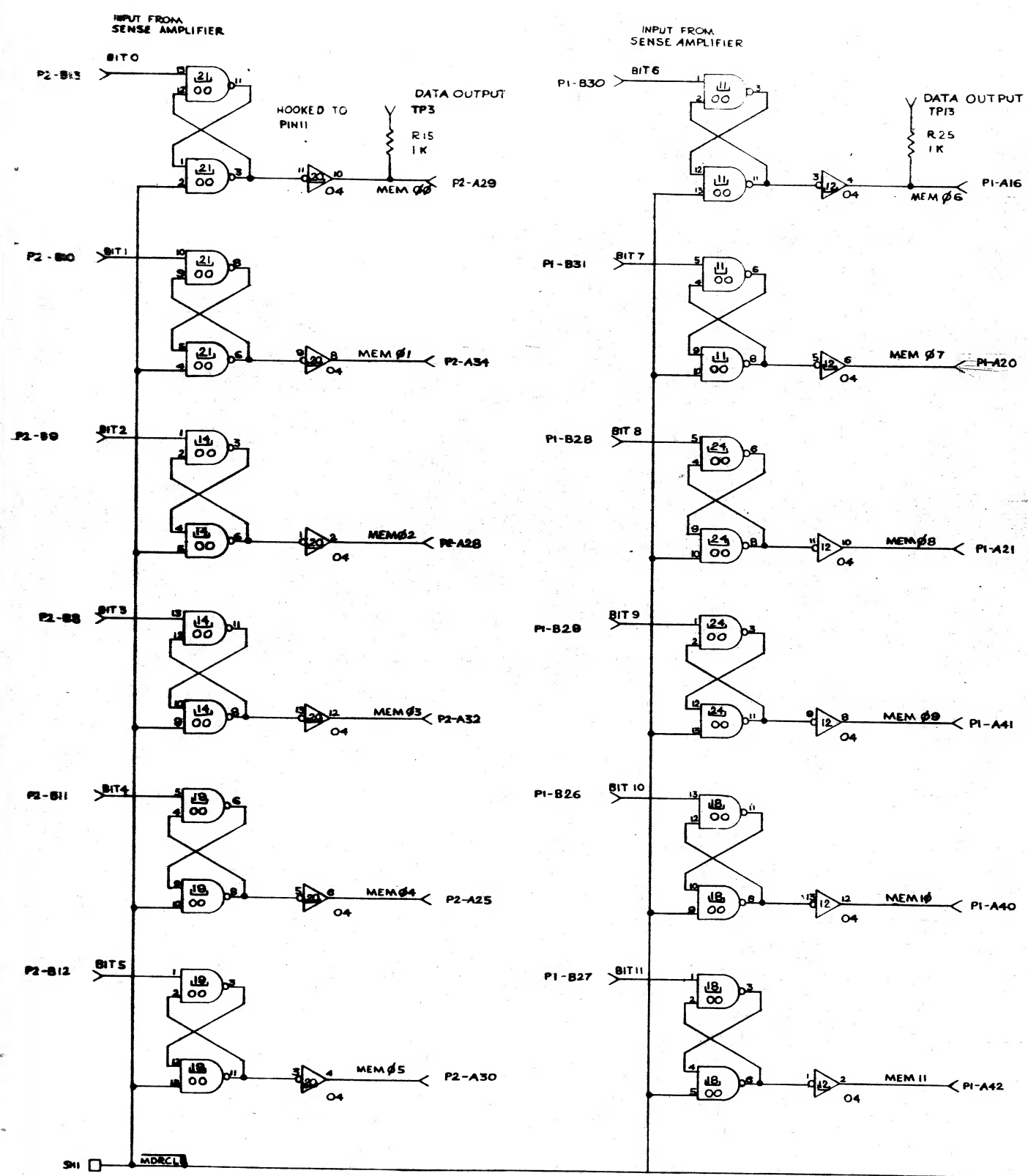


IC	GATES	PKGS
74123	4	1/6
7405	4	1/6
74123	6	3
7404	4	1/6
7400	1	1/4

NOTE:

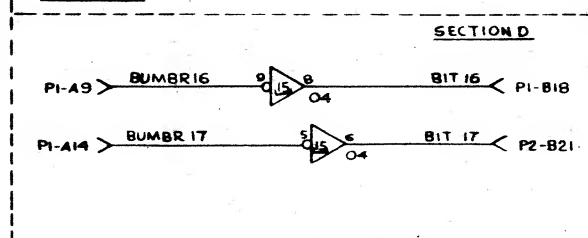
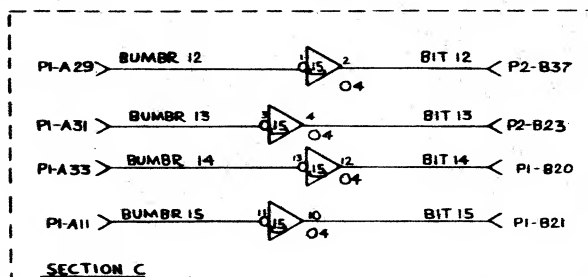
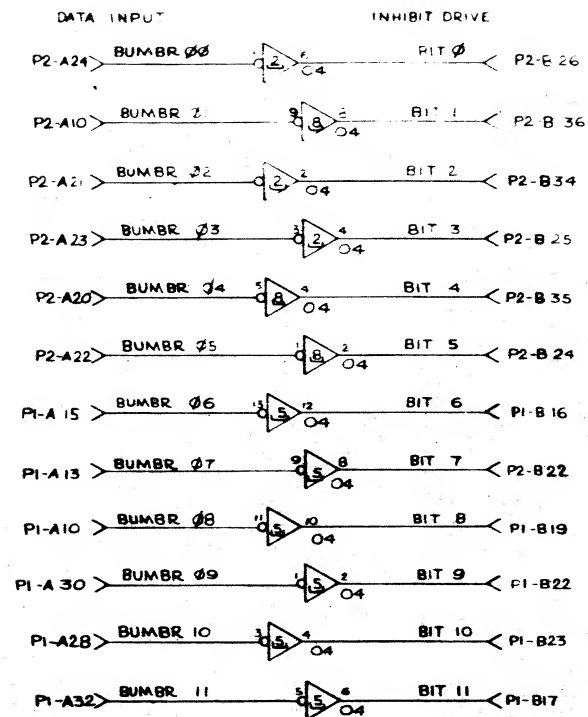
- DO NOT ASSEMBLE
- FOR G5 ASSY R5 IS 5.9K (002645) AND C15 IS 330PF (007336)
- FOR G6 ASSY R5 IS 5.9K (002645) AND R8 IS 6.49K (002650) C15 IS 330PF (007336)

REVISION 0000  
D-112  
CORE MEMORY CONTROL  
F 40081F

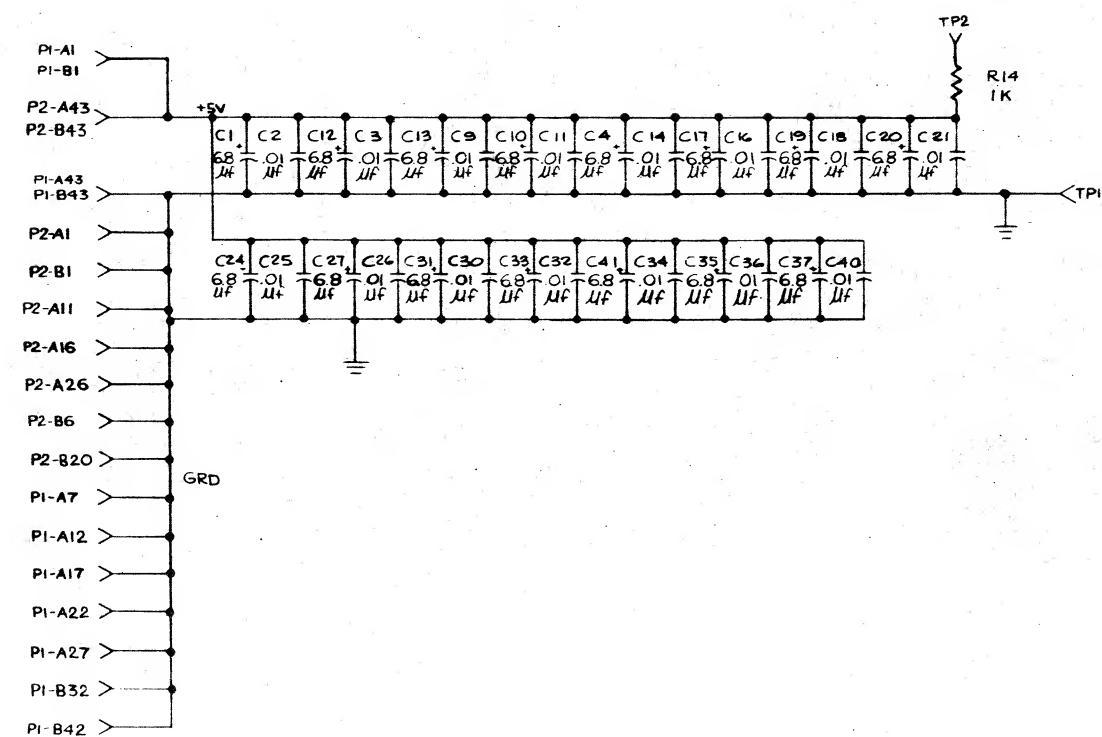
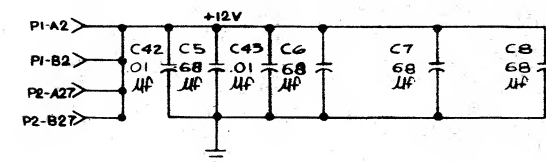
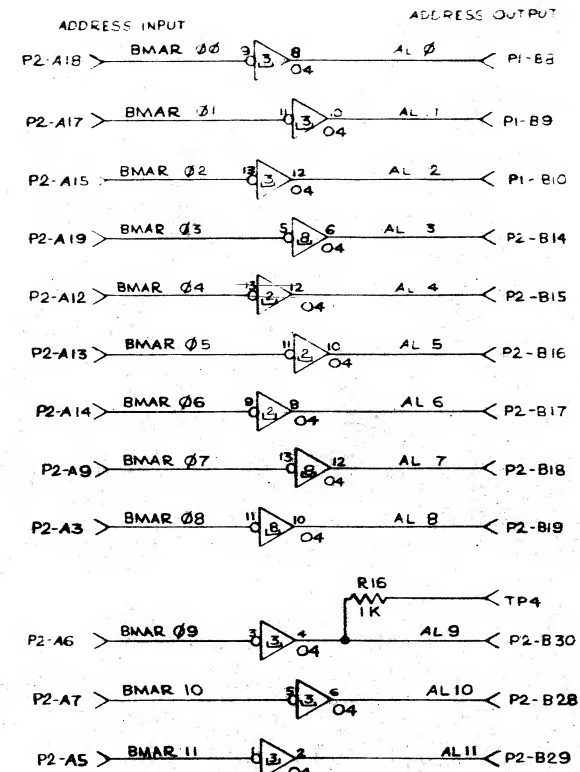


IC COUNT		
IC	GATES	PKGS
7400	36	9
7404	18	3

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60	Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100
QUANTITY PER GROUP										DRAWING NO.										DESCRIPTION										DATE																																																																					
LIST OF MATERIAL																																																																																																			
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DIGITAL COMPUTER CONTROLS, INC. AND ARE LOANED TO YOUR COMPANY FOR YOUR INFORMATION AND SHALL NOT BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF DIGITAL COMPUTER CONTROLS, INC.																																																																																																			
DIGITAL COMPUTER CONTROLS, INC. FAIRFIELD, NEW JERSEY 07004																																																																																																			
D-112 CORE MEMORY CONTROL																																																																																																			
F 400191																																																																																																			
SCALE 36																																																																																																			



SEE NOTE 1.



IC	GATES	PKGS
7404	30	5

QTY	GROUP	NO	DRAWING NO	DESCRIPTION	U	OF	M
LIST OF MATERIAL							
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DIGITAL COMPUTER CONTROLS, INC. AND ARE LOANED TO YOU FOR THE MANUFACTURE OF THE EQUIPMENT SPECIFIED HEREON. THEY ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF DIGITAL COMPUTER CONTROLS, INC.							
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF. FINISHES ARE TO BE PLATED FINISHES. TOLERANCES ARE: FRACTIONS DECIMALS INCHES .001 .005 .010 .015 .020 .030 .040 .050 .060 .070 .080 .090 .100 .125 .150 .175 .200 .250 .300 .375 .450 .500 .625 .750 .875 .900 1.000 1.125 1.250 1.375 1.500 1.750 2.000 2.250 2.500 2.750 3.000 3.250 3.500 3.750 4.000 4.250 4.500 4.750 5.000 5.250 5.500 5.750 6.000 6.250 6.500 6.750 7.000 7.250 7.500 7.750 8.000 8.250 8.500 8.750 9.000 9.250 9.500 9.750 10.000							
APPROVAL DR. R. RINALDI ENG. AAC PROD.				DATE 6/3/71 3/23/71 2/23/71			
DIGITAL COMPUTER CONTROLS, INC. FAIRFIELD, NEW JERSEY 07004				D-112 CORE MEMORY CONTROL.			
F 400191				SCALE 3 OF 4			



A	REVISED PER ECN 0093 & 000	RKT	6/20/71
B	REVISED PER ECN 0101 & 014	RKT	7/5/71
C	REVISED PER ECN 0120	RKT	8/9/71
D	REVISED PER ECN 0278	RKT	12/28/71
E	REVISED PER ECN 0489	RKT	3/25/72
F	REVISED/ ECN 0627	RKT	5/10/72

[illegible]

A - R2, 6, 7, 9, 11, 13, 17- 24, 27  
B - C2, 3, 9, 11, 16, 18, 21, 25, 26, 30, 32, 34, 36, 40, 42, 43  
C - C1, 4, 10, 12, 13, 17, 19, 20, 24, 27, 31, 33, 35, 37, 41

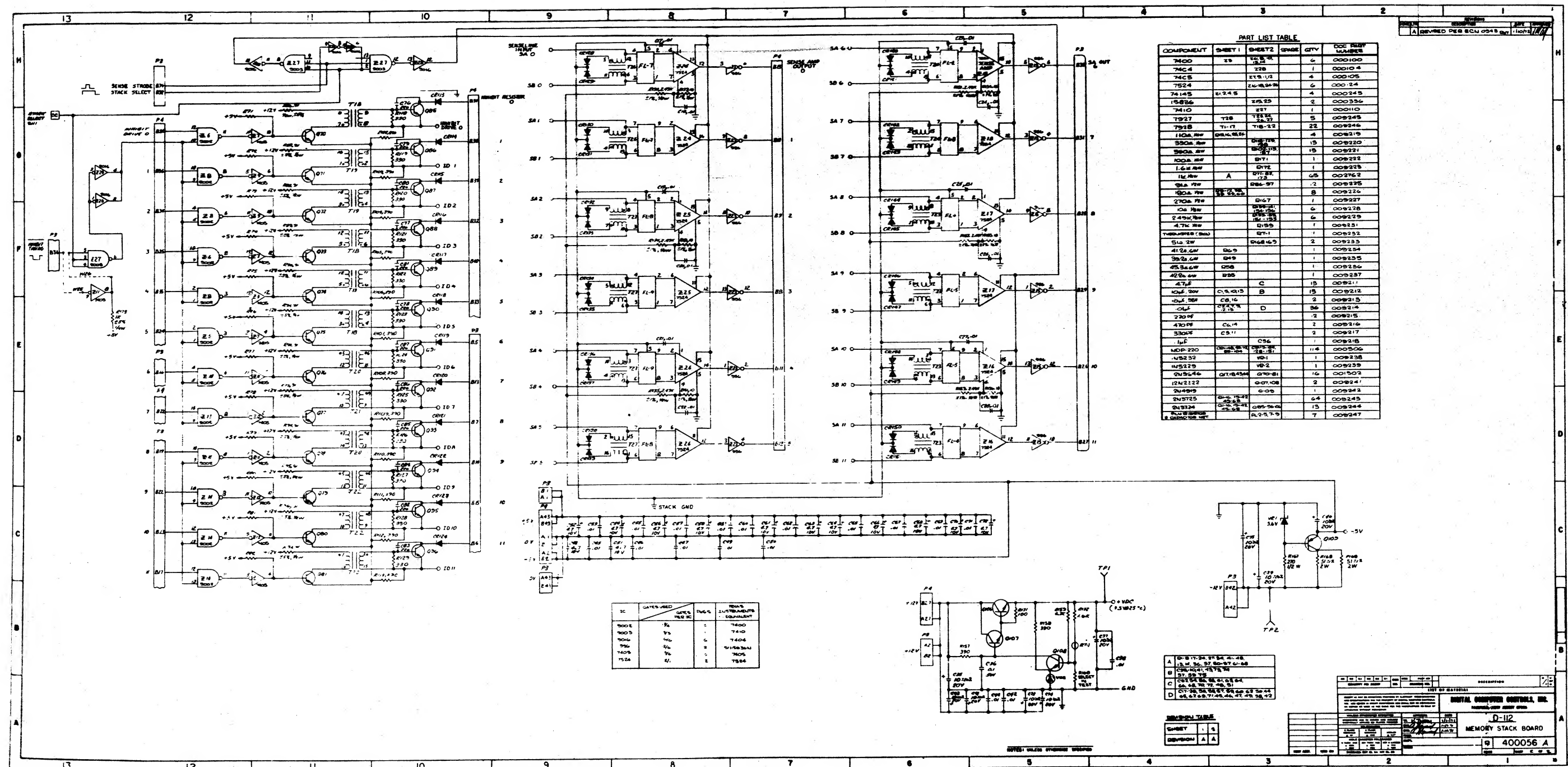
NOTES:

1. 12 BIT OPTION DOES NOT REQUIRE SECTIONS A, B, C, D  
16 BIT OPTION DOES NOT REQUIRE SECTIONS B, D.
2. PIN 8 OF IC 15, 17 & 23 IS GROUND  
PIN 16 OF IC 15, 17 & 23 IS +5 VOLTS  
ALL OTHER IC'S PIN 7 IS GROUND  
PIN 4 IS +5 VOLTS

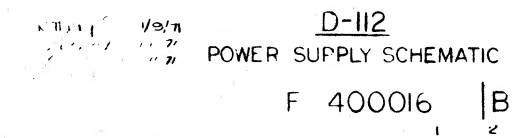
REVISION TABLE				
SHEET	1	2	3	4
REVISION	F			F

KIRKLAND 10/1/77  
 D-112  
 COMP MEMORY CONTROL  
 COMP RESET TEST  
 F-10014 F

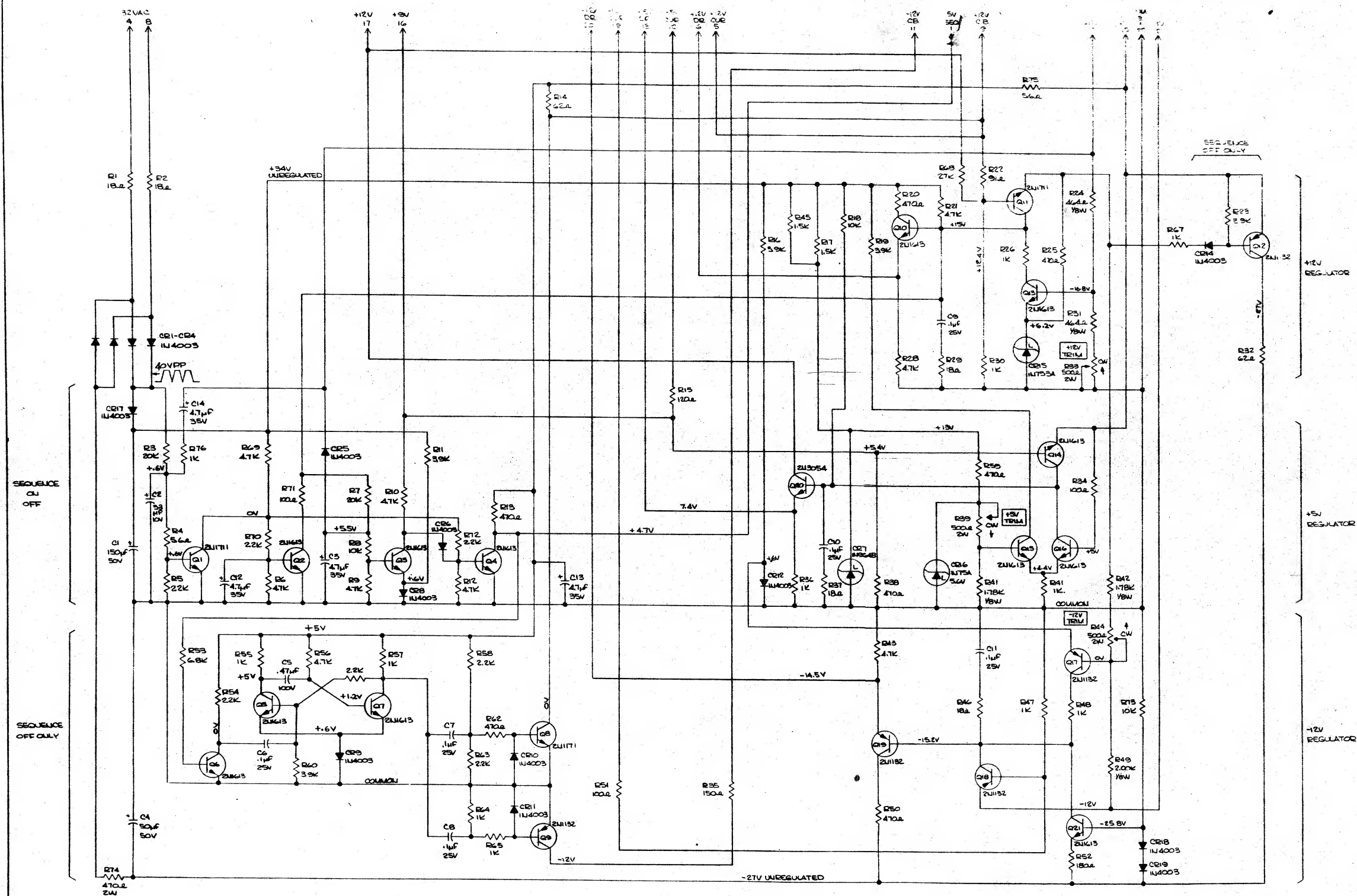




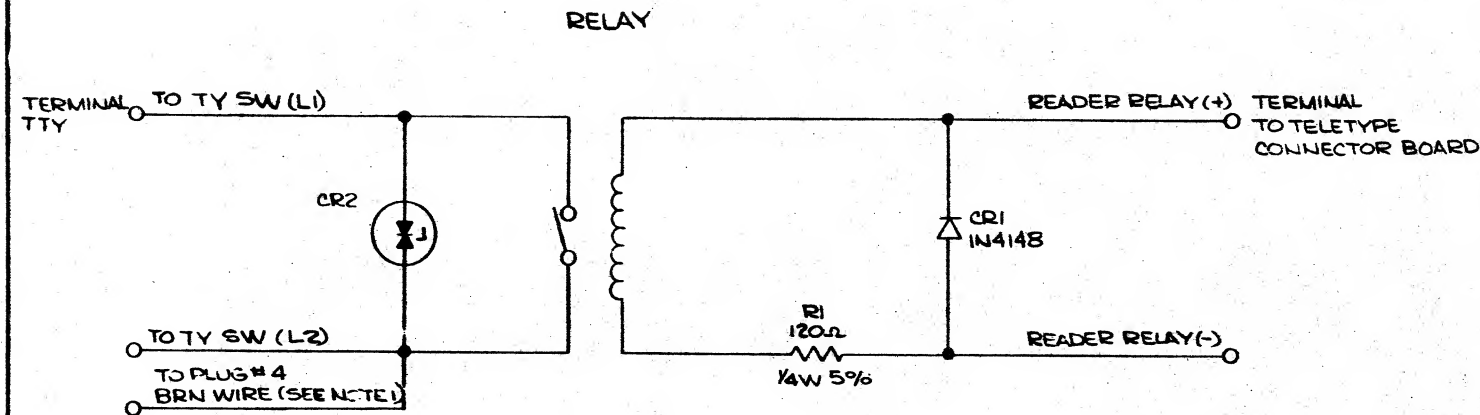




A	REVISED PER ECN 044	RWT	4/7/71	4H. JPS
F	REVISED PER ECN 044	RWT	4/7/71	



REVISIONS			
SYM	ZONE	DESCRIPTION	DATE
A		REVISED TERMINAL DESIGNATIONS	6/13/70
			APPROVED



NOTE:  
 1. CONNECT TO LARGE BRN WIRE IN PLUG #4 OF THE PLUG PANEL IN BACK OF TTY

PART LIST TABLE

	DESCRIPTION	QUANTITY	DCC PART NUMBER
RELAY	WHEELOCK RELAY	1	009203
CR1	1N4148	1	000500
R1	120Ω 1/4W 5%	1	002740
CR2	THYRECTOR DIODE	1	000503

G6	G5	G4	G3	G2	G1	ITEM NO.	SIZE	PART NO.	DESCRIPTION	M / U	P / M
QUANTITY PER GROUP							DRAWING NO.				
LIST OF MATERIAL											
EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT, THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF DIGITAL COMPUTER CONTROLS, INC. ARE ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT PERMISSION.										<b>DIGITAL COMPUTER CONTROLS, INC.</b> FAIRFIELD, NEW JERSEY 07006	
UNLESS OTHERWISE SPECIFIED							APPROVAL		DATE		
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES							DR. K. Thierly		6/11/70		
TOLERANCES							CHK. J. J. J. J. J.		6-5-70		
2 PLACE DECIMALS ± .01							3 PLACE DECIMALS ± .005		ANGLES ± 1/2°		
HOLE DIAMETER TOLERANCE							ENG. J. J. J. J. J.		6-5-70		
0 THRU .250 ± .003							.251 THRU .500 ± .005		.501 & LARGER ± .010		
THREADS, EXT CL 2A, INT CL 2B							PROD.				
NEXT ASSY.							USED ON				
							MATERIAL		C 400066A		
							FINISH				
							SCALE		SHEET 1 OF 1		



